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每章 **案例与练习题** 助你轻松完成常见任务,通过 **实践** 提高应用技能,巩固所学知识

随书附赠 光盘 包含用于Windows Linux和Mac OS X 的启动工具包

PHP、MySQL 和Apache

人门经典(第5版)

[美] Julie C. Meloni 著 李军 译



□1□ □□QuickStart□□ 1.1 □□□□□□□□□ 1.2 Linux/UNIX□□□□ 1.3 □Windows□□□XAM 1.4 □Mac OS X□□□XAM 1.5 □XAMPP□□□□ 1.6 □□□□□		
□2□ □□□□□MySQL 2.1 MySQL□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	<u>ySQL</u> <u>5QL</u>	

2.8 MySQLDDDDD 2.8.2 □□□□ 2.8.3 | | | | | 2.9 □□ 2.10 Q&A 2.11 ПП $\square 3 \square \square \square \square \square \square \triangle$ 3.1 Apache 3.2 3.2.1 3.2.2 3.3 □Linux/UNIX□□□Apache 3.3.1 ∏∏Apache∏∏∏ 3.3.2 3.3.3 **□□□□Apache** <u>3.3.4 □□□□□Apache</u> 3.4 ∏Mac OS X∏∏∏Apache 3.5 □Windows□□□Apache 3.6 Apache∏∏∏∏∏ 3.6.1 □□ 3.6.2 □□ 3.6.3 3.6.4 ServerRoot□□ 3.6.5 per-directory□□□□ 3.7 Apache∏∏∏ 3.7.1 access log□□ 3.7.2 error log □□ 3.7.3 □□□□ 3.8 Apache∏∏∏ 3.8.1 Apache□□□□□□□□

3.8.2 Apache □□□□□

```
3.9 □□□□□Apache
3.9.1
3.10
3.10.1 □□Web□□□
3.10.2
3.10.3
3.10.4
3.11 □□
3.12 Q&A
3.13
П4П ПППППРНР
4.1 PHP
4.2 □□□Apache□Linux/UNIX□□□PHP
4.2.1 □□□Linux/UNIX□□□□
4.2.2 ∏Linux/UNIX∏∏PHP∏Apache
4.3 ∏Mac OS X∏∏∏PHP
4.4 ∏Windows∏∏PHP
<u>□Windows</u><u>□□PHP□Apache</u>
4.5 php.ini□□
4.6 □□□□
4.7
4.8 PHP□□□□
4.8.1 <u>ПППППППРНРППП</u>
4.8.2 echo∏∏print()∏∏
4.8.3 □□HTML□PHP
4.8.4 | PHP| | | | | | | |
4.9 □□
4.10 Q&A
ПΠ
```

Π2ΠΠ ΡΗΡΠΠΠΠ 5.1 □□ 5.1.1 5.1.2 5.2 5.2.1 □□settype()□□□□□□□□□ 5.2.2 חחחחחחחחחחחחחחח 5.2.3 5.3 5.3.1 5.3.2 5.3.3 5.3.4 5.3.5 5.3.6 5.3.7 חחחחחחחחחחחחחחחחח 5.3.8 5.4 □□ 5.5 □□ 5.6 Q&A <u>5.7 חחחח</u> ППП ПП <u>п6п РНРппппппп</u> 6.1 □□□□ 6.1.1 if□□ 6.1.2 ∏⊓else∏∏if∏∏ 6.1.3 □□□□elseif□□□if□□ 6.1.4 switch□□ 6.1.5

```
6.2 □□
6.2.1 while □□
6.2.2 do...while □□
6.2.3 for □□
6.2.4 □break□□□□□□
6.2.5 □continue□□□□□□□
6.2.6 □□□□
6.3 חחחחחחחח
6.4 □□
6.5 Q&A
6.6 □□□□
ПП
ППП
7.1
7.2
7.3 | | | | | | | |
7.4 חחחחחחחחחח
7.5
□□global□□□□□□
7.7 חחחחחחחחח
7.7.1
7.7.2 חחחחחחחחחח
7.8 חחחחחחחח
7.9 □□
7.10 Q&A
7.11
ППП
8.1
```

8.2 | 8.2.1 8.2.2 8.3 חחחחחחחחח 8.4 □□ 8.5 Q&A 8.6 ПППП ПП П9П ПППП 9.1 9.1.1 9.1.2 9.1.3 □□□□ 9.2 | | | | | 9.3 □□ 9.4 Q&A 9.5 ППП ПП 10.1.1 □□printf() 10.1.2 10.1.3 □□□□ 10.1.4 10.2 □□PHP□□□□□ 10.2.1 <u>10.2.2 ∏⊓strlen()∏∏∏∏∏∏∏∏</u> <u>10.2.3 ∏strstr()∏∏∏∏∏∏∏</u>

```
10.2.6 □□strtok()□□□□□□□
10.3.1 □□trim()□ltrim()□strip_tags()□□□□□□□
10.3.2 \square \square substr replace() \square \square \square \square \square \square
10.3.3 \square \text{str replace}() \square \square \square \square
10.3.4
10.3.5 \square wordwrap() \square nl2br() \square \square
10.3.6 □□explode()□□□□□□□□□
10.4.1 □□time()□□□□
10.4.2 □□getdate()□□□□□□□
10.4.3 □□date()□□□□□□□□
10.4.4 □□mktime()□□□□□
10.4.5 ⊓⊓checkdate()⊓⊓⊓⊓
10.6 □□
10.7
10.8 Q&A
ПП
\Pi 11\Pi \Pi\Pi\Pi\Pi
11.1 חחחחחחחחחחח
11.2 _______
11.4 חחחחחחחחחח
11.5
11.6 חחחחחחחחח
11.6.1 mail()□□□□□□□
11.6.2 □□□□
11.6.4 \, \square \square \square \square \square \square
11.7
```

```
11.7.1
11.7.2
11.8 □□
11.9 Q&A
11.10
ПП
П12П ППCookieППППП
12.1 Cookie∏∏
12.1.1 □□□□□□cookie
12.1.2 □□cookies
12.2 ΠΠΡΗΡΠΠΠΠαοοκίε
ППППсоокіе
12.3
12.4
12.5
12.6
12.7 חחחחחחחחחחחחחחחחח
12.7.1
12.7.2
12.8 □□
12.9 Q&A
12.10
ПП
13.1 ∏∏include∏∏∏∏∏
13.1.1 חחחחחחחחחחחחח
13.1.2 \square \square
13.1.3 ∏∏include_once∏∏
13.1.4 include path□□
13.2
```

```
13.2.1 □□file exists()□□□□□□□□
13.2.2
13.2.3
13.2.4 ⊓⊓filesize()<u>⊓⊓⊓⊓⊓</u>
13.2.5
13.2.6 חחחחחחחחחחחחחח
13.3
13.4 חחחחחחחחחחחחחח
13.5
13.5.3 □□fgetc()□□□□□□□
13.5.4 □file get contents()□□□□□□
13.6 חחחחחחחחחחח
13.6.1 □□fwrite()□fputs()□□□□
13.6.2 □□file_put_contents()□□□□□
13.6.3 □□flock()□□□□
13.7
13.7.1 □□mkdir()□□□□
13.7.2 □□rmdir()□□□□□□
13.7.3 □□opendir()□□□□□□□□□
13.9 □□exec()□□□□□
13.10 □□system()□passthru()□□□□
13.11 □□
13.12 Q&A
13.13 □□□□
ПП
\Pi 14\Pi \Pi\Pi\Pi\Pi
14.2 □PHP□□□□□
```

```
14.3
14.3.1
14.3.2
14.4 חחחחחחח
14.5
14.6 חחחחחחחחחחחחחחח
14.7 חחחחחחחח
14.8 □□
14.9 Q&A
14.10 | | | | |
ППП
<u> □4□□ PHP□MySQL□□</u>
15.1
15.2
15.2.1
15.2.2 □□□□□
15.2.3
15.3 | | | | | |
15.3.1
15.3.2 □□□□
15.3.3 □□□□
15.3.4 □□□□
15.4
15.5 □□
15.6 Q&A
15.7
```

```
16.1 MySQL□□□□
 16.1.2
 16.1.3
 16.2
 16.3 □□INSERT□□
TOTAL NAME OF THE PARTY OF THE
 16.4 □□SELECT□□
16.4.1 □□SELECT□□
16.4.2 □□□□□
16.5 DODDODOWHERE
16.6
 16.6.1 □□IOIN
16.6.2 □□□□□□
16.7 INUPDATED IN THE STATE OF 
16.7.1 □□□UPDATE
16.8 □□REPLACE□□
16.9 □□DELETE□□
ΠΠΠDELETE
 16.10 MySQL000000
 16.10.1
 16.10.2
16.10.3
 16.10.4
 16.10.5
 16.11.1 □□□□
 16.11.2
16.11.3 □□□
 16.11.6 □□MySQL□□□□□□
16.11.7
```

```
16.12 □□
16.13 Q&A
16.14 □□□□
ПП
17.1 _____
17.1.1
<u>17.1.2 חחחחחח</u>
<u>17.2 חחחחחח</u>
17.3 □□
17.4 Q&A
<u>17.5 ⊓⊓⊓</u>
<u>Π18Π ΠΠΡΗΡΠΜγSQLΠΠ</u>
18.1 MySQL
18.2 □□PHP□□MySQL
18.2.1
18.2.2 □□□□
18.2.3
<u> 18.3 ∏∏MySQL∏∏</u>
18.3.1 □□SQL□□
18.3.2 □□PHP□□□□
18.3.3 □□PHP□□□□
18.3.4 PHP□□□□MySQL□□
18.4 □□
18.5 Q&A
18.6
ПП
```

19.1 19.1.1 □□subscribers□ 19.1.2 19.1.3 19.2 19.3 □□ 19.4 Q&A 19.5 ПП 20.1 חחחחחחחחח 20.2 חחחחחחחחחחחחח 20.3 | | | | | | | | 20.4 20.5 20.6 חחחחחחחחח 20.7 חחחחחחחחחח 20.8 □□ 20.9 Q&A 20.10 ПП ППП 21.1 | | | | | | | 21.3 חחחחחחחחח 21.4 חחחחחח 21.5 חחחחחחחחחח

```
21.6
21.7 □□
21.8 Q&A
21.9 | | | | | |
ПП
22.1
22.1.1 □store categories□□□□□
22.1.2 □store items□□□□□
22.1.3 □store item size□□□□□□
22.1.4 □store item color□□□□□
22.2
22.3
22.4 □□
22.5 Q&A
22.6 | | | | | |
ППП
ПП
ППП
23.1
23.2
23.2.1
23.2.2
23.2.3 חחחחחחחחח
23.3 חחחחחחחחח
23.3.1
23.3.2
23.4 □□
23.5 Q&A
23.6
```

□24□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
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25.8 Q&A 25.9 □□□□

□27□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
27.3.3 MySQL
27.4
<u> 27.5 ∏gettext()∏∏∏∏∏∏</u>
27.6 □□
27.7 Q&A
27.8 ПППП
ПП
\square 28 \square \square \square XML
28.1 □□□XML
28.1.1 □□XML□□□□
28.2 | | DOM| | PHP| | XML
28.3 □□SimpleXML□□□PHP□□□XML
28.4 □□JSON
28.5 □□
28.6 Q&A
28.7 | | | | |
ПП
29.1
29.1.1
<u> 29.1.2 ∏∏∏∏∏Apache∏</u>
29.2 □□ApacheBench□□□□
29.3 | | | | | | | |
29.3.1
29.3.2
29.3.3 □□
29.3.4
```

```
29.3.5
29.4 □□□□
29.5 | | | | | | | |
29.5.2
29.5.3 | | | | | | |
29.6 □□
29.7 Q&A
29.8
ПП
30.1
30.2 SSL□□
30.2.1
30.2.2
30.2.3
30.3 NOTES SENT
30.3.1 OpenSSL
30.3.2 Apache∏mod ssl∏∏
30.4 □□□□
30.4.1
30.4.2
30.4.3 חחחחחחחחחח
30.5 SSL□□
30.6 □□
30.7 Q&A
30.8
ППП
ПΠ
31.1
□□benchmark()□□
```

```
31.2 MySQL
31.3
31.4 | | | | | | | |
31.5 □□FLUSH□□
31.6 □□SHOW□□
31.6.1
31.6.2
31.6.3
31.7 □□
31.8 Q&A
31.9
ПП
32.1
32.2 <u>□</u><u>MySQL</u>
32.3 □□ Apache
\square\squareApache\square\square\square\square\square\square
32.4 □□PHP
\sqcap \sqcap \mathsf{PECL} \sqcap \mathsf{PEAR} \sqcap \sqcap \mathsf{PHP}
32.5 □□
32.6 | | | | | |
33.1
33.2 □□MVC□□
<u>33.3 ПППППРНРПППППП</u>
33.3.1 Zend Framework
33.3.2 CakePHP
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PHP MySQL Apache 5
• [] Julie C.Meloni
• 000000000 0000000 11 0
□□ 100164 □□□□ 315@ptpress.com.cn
http://www.ptpress.com.cn

_____(010)81055410



Julie C. Meloni: Sams Teach Yourself PHP, MySQL and Apache All in One

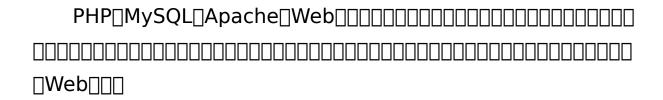
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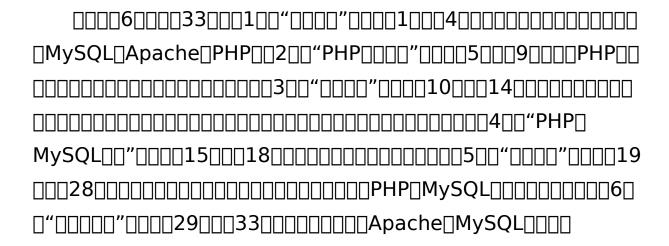
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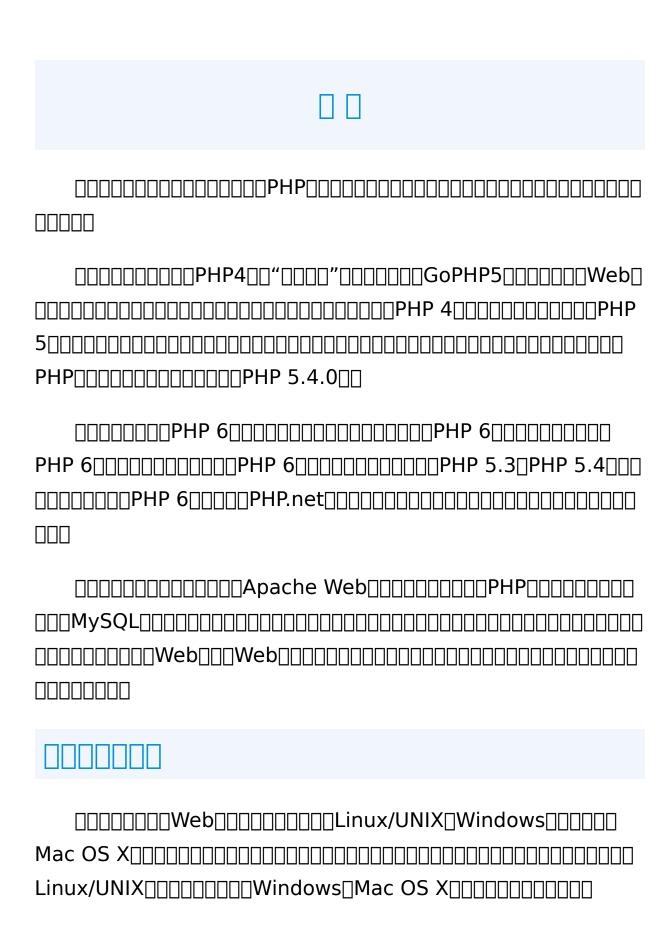






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- **QuickStart**
- **0000 MySQL**
- **3 Apache**
- **0000PHP**

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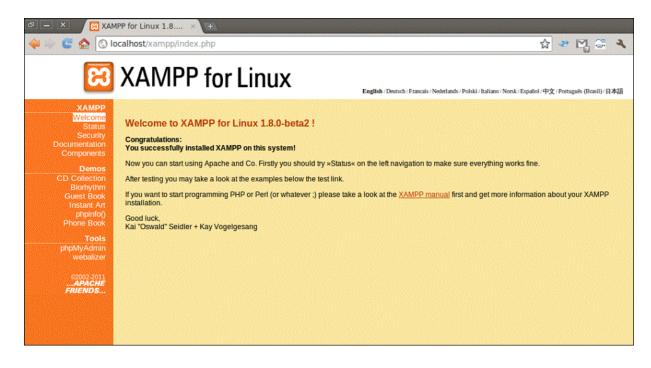
2_3_4MySQL_Apache_PHP

1.1 [[[[[]]]]]

- WAMP —— [Windows [] [] Apache [MySQL [] PHP [] [] []
 http://www.wampserver.com/ for more information []
- MAMP —— [Mac [] [] Apache [MySQL [] PHP [] []]
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1.2 Linux/HNIVDDD
1.2 Linux/UNIX
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mntCD-ROM_
mount /dev/cdrom /mnt -t iso9660
http://www.apachefriends.org/en/xampp-linux.html
ппппппппппппппп
/opt
_/opt
tar xvfz xampp-linux-VERSION-NUMBER.tar.gz -C /opt

XAMPP1.8.0-beta2xampp-linux-1.8.0-beta2.tar.gz
/opt/lamppXAMPPXAMPP
cd lampp
XAMPP Apache MySQL
./lampp start
Starting XAMPP for Linux 1.8.0 XAMPP: Starting Apache with SSL (and PHP5) XAMPP: Starting MySQL XAMPP: Starting ProFTPD XAMPP for Linux started.
WebWeb
http://localhost/xampp/index.php []XAMPP[][][][][][][]



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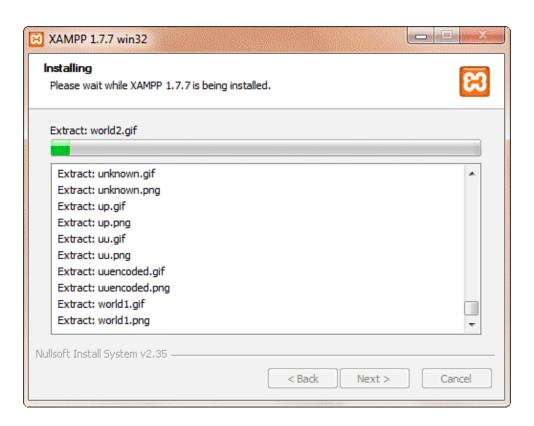
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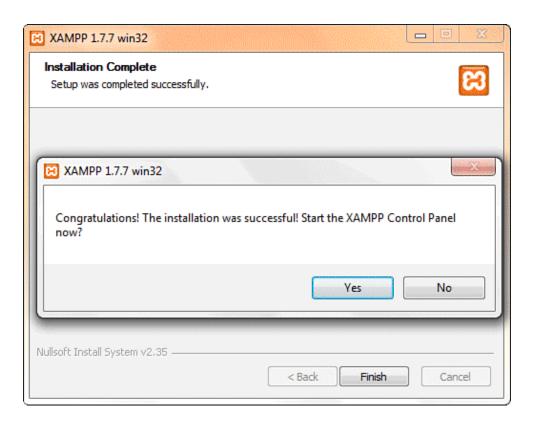


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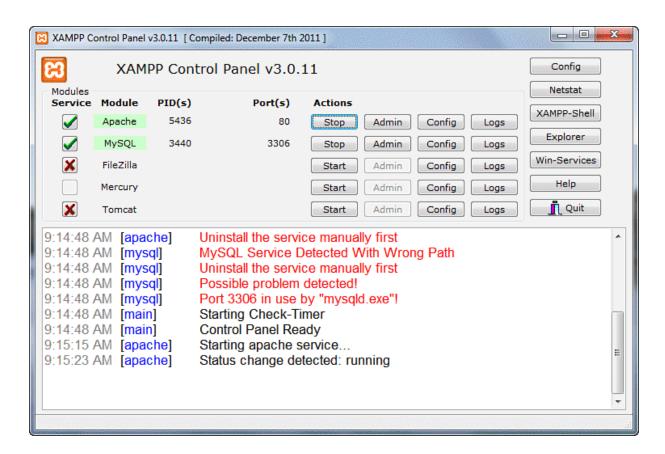
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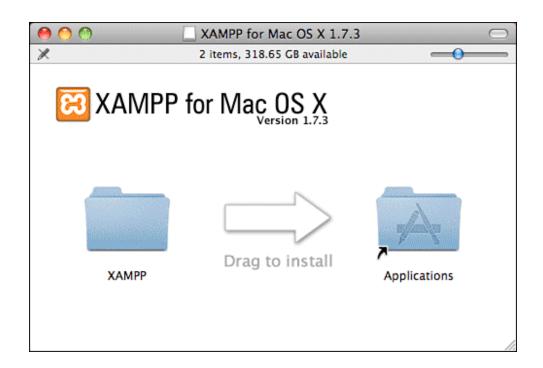
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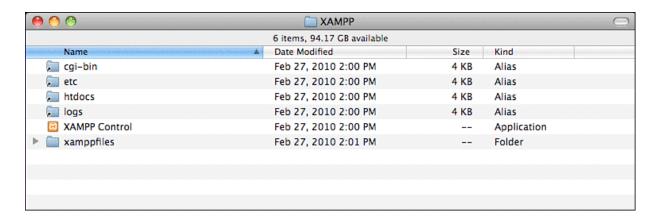
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□1-6 XAMPP□□□□

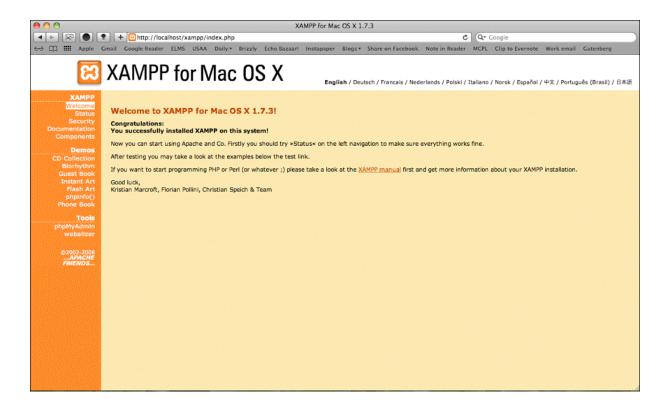






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XAMPP Control Panel
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1.5 □**XAMPP**□□□

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• MySQL



2 MySQL

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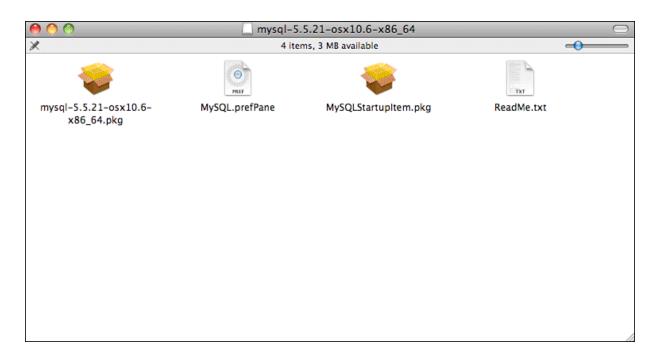
MySQL AB_____MySQL______Sun Microsystems___MySQL AB_Oracle____Sun Microsystems___MySQL AB_Oracle__MySQL____MySQL Community Edition_____MySQL Web__http://www.mysql.com/ _____Moracle__MySQL OS X_____Linux/UNIX__RPM______

2.3 ||Linux/UNIX|||||MySQL

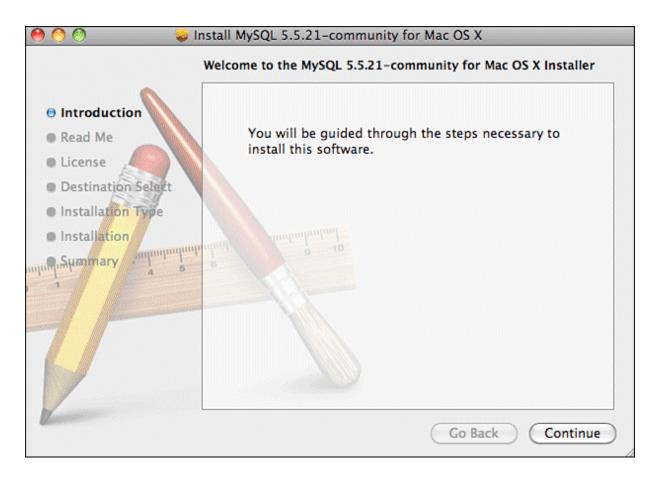
Company Comp
 MySQL-server-type - VERSIONNUMBER .PLATFORM .rpm —The MySQL server MySQL-client-type - VERSIONNUMBER .PLATFORM .rpm —The standard MySQL client libraries
rpm -i MySQL-server-VERSION.i386.rpm MySQL-client-VERSION.i386.rpm
DODDOVERSIONNUMBERDODDODDODDODDODDDDDDDDDDDDDDDDDDDDDDD
Debian De
gunzip[]ta

```
# groupadd mysql
# useradd -r -g mysql mysql
# cd /usr/local
# tar zxvf /path/to/mysql-VERSION-PLATFORM.tar.gz
ODDOONVERSION-PLATFORMOODDOODDOODDOOMYSQL 5.500Linux00000
\square mysql-5.5.21-1- linux2.6.i386.tar
   # ln -s mysql-VERSION-PLATFORM mysql
# cd mysql
   # scripts/mysql install db --user=mysql
# chown -R root .
# chown -R mysql mysql data
# chgrp -R mysql .
# bin/mysqld safe --user=mysql &
   nnnnnnnnmySQLnnnnnnn2.7"nnnnnn"nnnnn
```

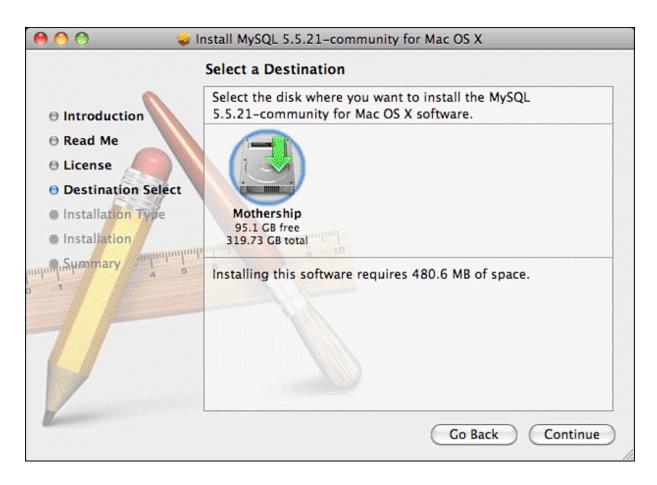
2.4 | Mac OS X | MySQL



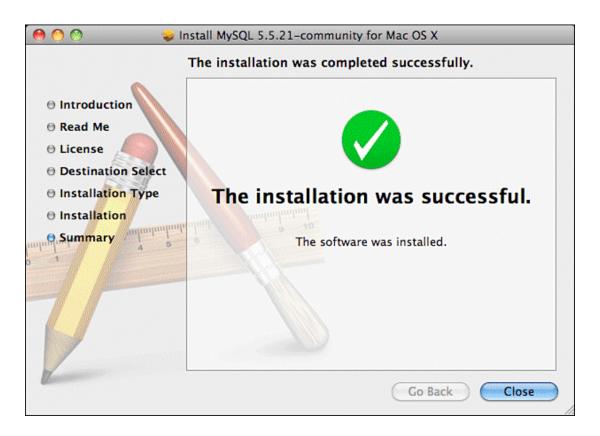
2-100MySQL DMG00000



□2-2 Mac□MySQL□□□□□□□



 02-3

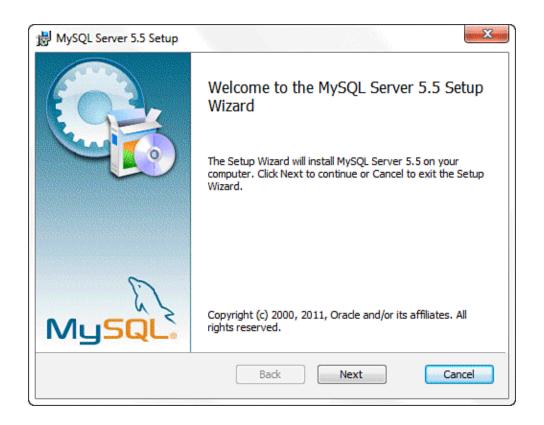


□2-4 MySQL□□□□

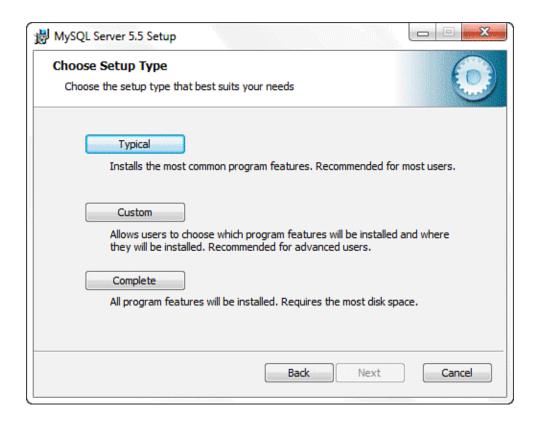
sudo /Library/StartupItems/MySQLCOM/MySQLCOM start

2.5 | Windows | | MySQL

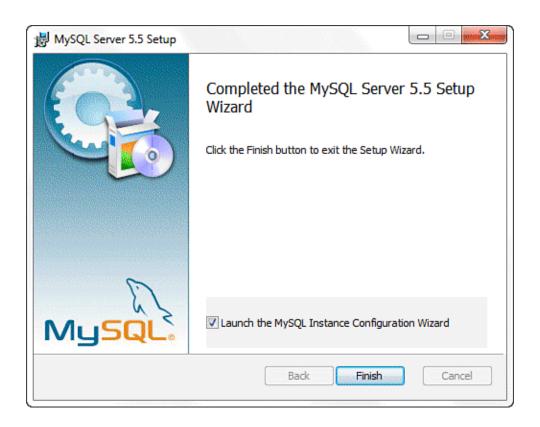
Windows MySQL MySQL Microsoft Windows
<pre> [Microsoft Windows Installer[MSI[]][][][Windows XP[] </pre>
Windows Server 2003 \square Windows Vista \square Windows 7 \square \square MySQL
$http://dev.mysql.com/downloads/mysql/5.0.html~ \verb MySQL $
$\verb $
*.msi
UUUUUUUMySQL ABUWindows EssentialsUUUUU WindowsUUMySQL 5.0.20UUUUUUWindowsUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
Windows
1*.msiNext



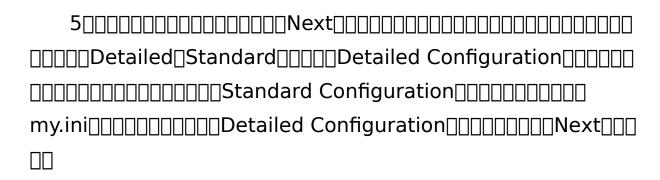
[]2-5 Windows[]MySQL[][][][][][]



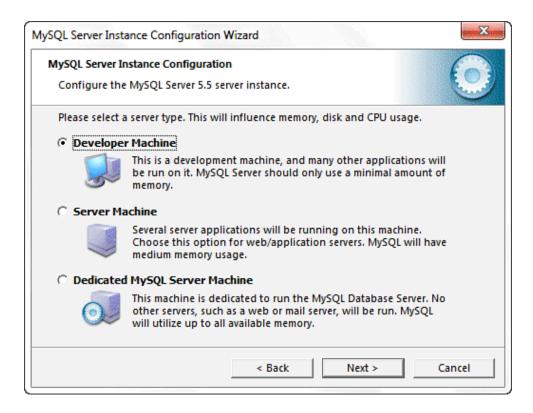
40000000000000000000000000000000000000
00000000000000000000000000000000000000
$\verb MySQL $
Finish 2-7



□2-7 □□□MySQL□□□□□□□□MYSQL Config uration Wizard

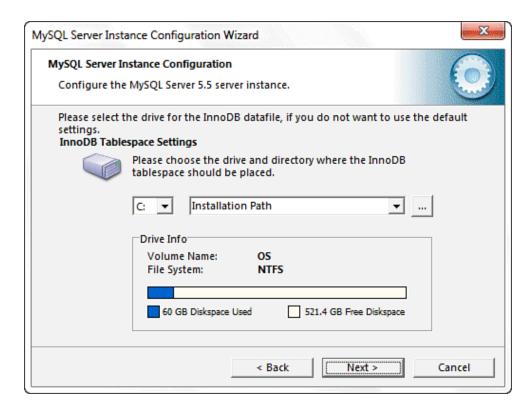


Machine MySQL Server Machine MySQL MySQL Server Machine MySQL MySQL Server Machine MySQL M



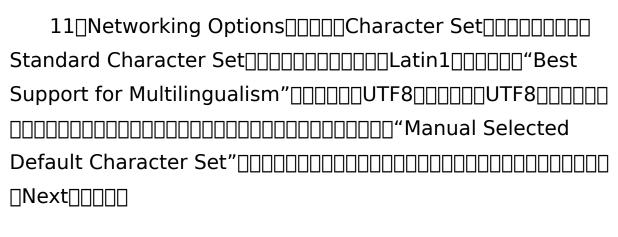
02-8 0000000MySQL00000

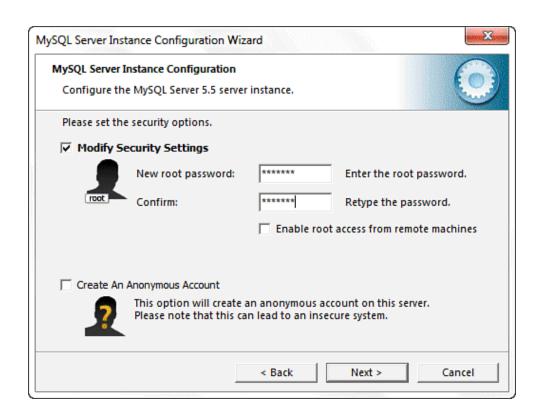
70000000000000000000000000000000000000
$Transactional\ Database \verb □Non-Transactional\ Database\ Only \verb □ □$
$[]Multifunctional\ Database[]InnoDB[]MyISAM[][][][][][][][][][][][][][][][][][][]$
$\verb [] Transactional Database [] InnoDB MyISAM [] [] [] [] [] [] [] [$
□□□□InnoDB□Non-Transactional Database Only□□□□InnoDB□□
MyISAM
Multifunctional Database
88
00000000000000002-9000000Next00000000000000000



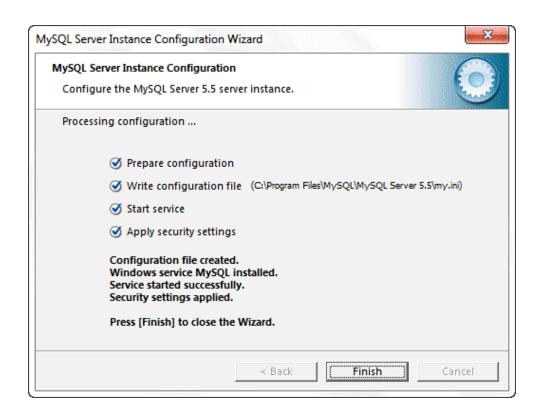
9MySQLWeb
P
500Manual
Next







[]2-10 [][MySQL[][][root[][][][]



00000000000000my.ini0000000000MySQL0000	

00MySQL00000002.7000000000000000002.600

2.6 [[[[[[[[[

http://dev.mysql.com/doc/refman/5.5/en/problems.html

- ____MySQL____

2.7 | | | | | | |

2.7.1 □□MySQL

| MySQL | Linux/UNIX | Mac OS X | D | D | D | MySQL | MySQL | | MySQL | MySQL

database
<pre># mysqlduser=non_root_user_name</pre>
mysqlduser=mysql
MySQL MySQL bin mysqld_safe
<pre># bin/mysqld_safeuser=mysql &</pre>
2.7.2 MySQL
MySQLMySQLMySQL
MySQLMySQLMySQLMySQL GUI

00MySQL000000000000000000000000000000000000
Internet
000000000000000MySQL000000000000000000000000000000000000
SSH
MySQLSSH
http://www.phpmyadmin.net/ [][][][][][]phpMyAdmin[][1
XAMPPInternet
00000000HTTP0000000
000000000MySQL000000000000000000000000000000000000

2.8 MySQL

- חחחחחחחחחחח

- columns_priv ——_______
- **db** ——______



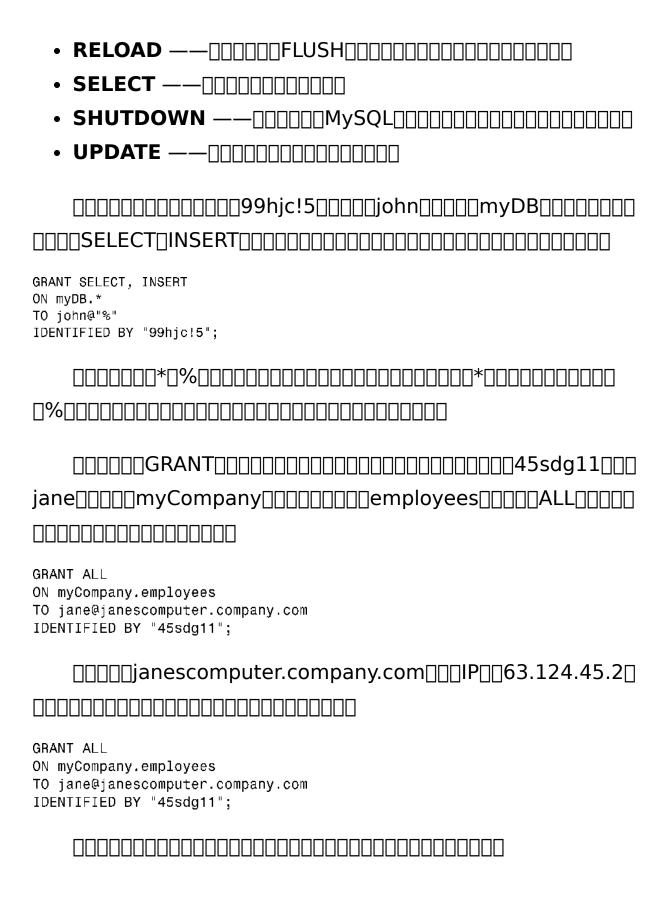
```
# mysql -h localhost -u joe -pabc123 test
Error 1045: Access denied for user: 'joe@localhost' (Using password: YES)
  nnnnnnnnnioennnnnnnnnnnniownnnnnnnnn
# mysql -h localhost -u joe -pabc123 test
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 12 to server version: 5.5.21-log
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
mysql> SELECT * FROM test_table;
+---+
| id | test_field |
| 1 | blah
| 2 | blah blah |
2 rows in set (0.0 sec)
mysql> INSERT INTO test_table VALUES ('', 'my text');
Error 1044: Access denied for user: 'joe@localhost' (Using password: YES)
  DELETENN
  \square
```

2.8.2

GRANT privileges
ON databasename.tablename
TO username@host
IDENTIFIED BY "password";

- ALL ——0000000000

- **DELETE** ——00000000000
- **DROP** ——______
- FILE ——_______
- INDEX ——0000000000
- INSERT ——00000000000
- PROCESS ——_______



DDDDGRANTDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
2.8.3
DDDDDDDDDDDDDDREVOKEDDDDDGRANTDDD
REVOKE privileges ON databasename.tablename FROM username@hostname;
00000001NSERT000000000000000000000000000000000000
john myCompany INSERT
REVOKE INSERE ON myCompany.* FROM john@hostname
2.9
<pre></pre>

RPMMySQL
00000000000000000000000000000000000000
MySQLMySQLMySQL
0000000MySQL000000000000000000000000000000000000
2.10 Q&A
QREVOKE
ADDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
QInternetMySQLroot

\$2.95\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
2.11 [[[[[
10000000000000MySQL00000SSH0000000					
2000MySQL00000000MySQL00030000					
3DDDlocalhostDDDbillDDDDBillDBDDDDDDDDDDDDDDDDDDDDDDD					
100SSH000000000000000000000000000000000					
2000000000000000000					
3					
GRANT SELECT, INSERT, UPDATE ON BillDB.* TO bill@localhost;					

100000000000000000000000000000000000000
2MySQLGRANT

3 3 Apache

- Apache
 - ____Apache Web______

Apache
2.4.1
3.2
3.2.1

3.2.2 חחחחחחחחחח

3.3 ||Linux/UNIX|||||Apache

Apache

20000000

300000000

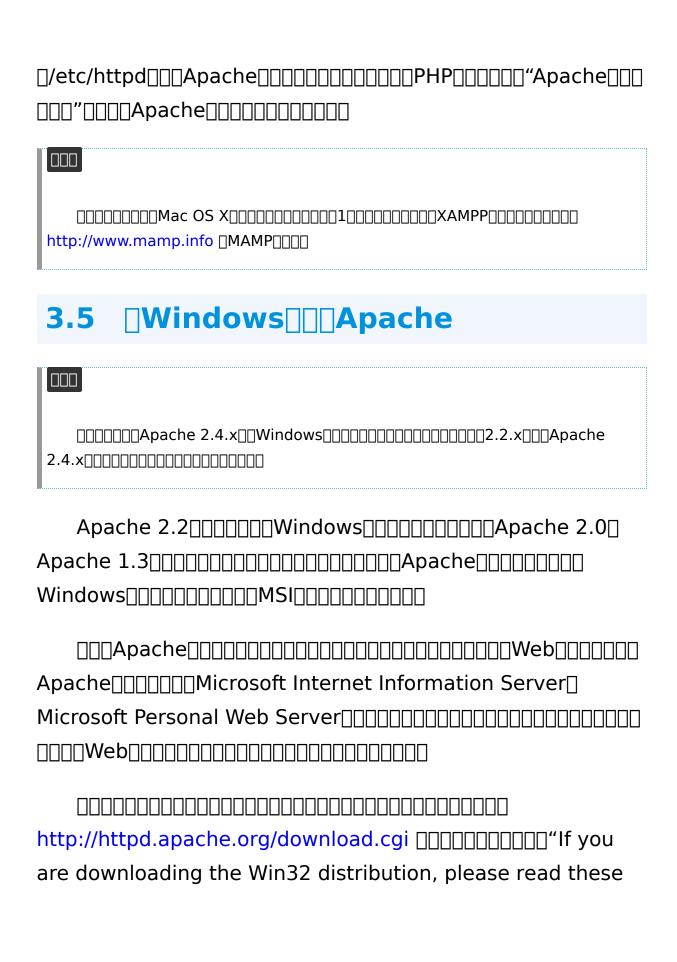
3.3.1 □□Apache□□□

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
3.3.2
tarballtar
gunzip < httpd-2.4*.tar.gz tar xvf -
tarballhttpd <i>VERSION</i>
3.3.3 DDDDApache
<pre></pre>
" I / Von Lagul C

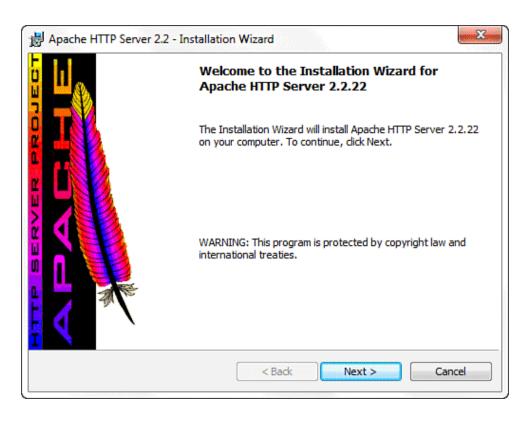
```
____4_PHP_____mod so___Apache__
 \mathsf{UNIX} \cap \mathsf{DOM}(*.\mathsf{so}) \cap \mathsf{DOM} \cap \mathsf{DOM}(*.\mathsf{so}) \cap \mathsf{DOM}(*.\mathsfso) \cap
mod so
 # ./configure --prefix=/usr/local/apache2 --enable-so
                                  configure
targets \\ \partial \partial \quad \qqq \quad \qqq \quad \qu
 configure ok
creating test/Makefile
config.status: creating docs/conf/httpd.conf
config.status: executing default commands
                                  __configure______
configure∏∏
                                  httpd- VERSION CONTROL STELLING TO STELLING THE STELLING
```

make[][][][][][makefiles[][][][][][][][][][][][][][][make[]
Apache
make install
Installing header files Installing build system files Installing man pages and online manual
make[1]: Leaving directory '/usr/local/bin/httpd-2.4.1' #
configure prefix Apache
$\verb $
<pre># /usr/local/apache2/bin/httpd -v</pre>
Server version: Apache/2.4.1 (Unix) Server built: March 12 2012 11:47:22

3.4 | Mac OS X | Apache

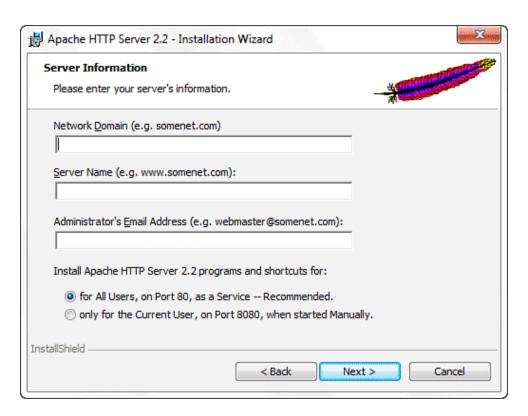


http://www.apache.org/dist/httpd/binaries/win32/README.ht ml \sqcap

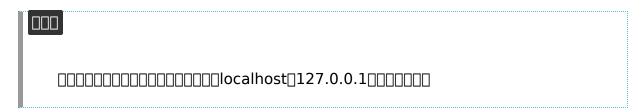


□3-1 Windows

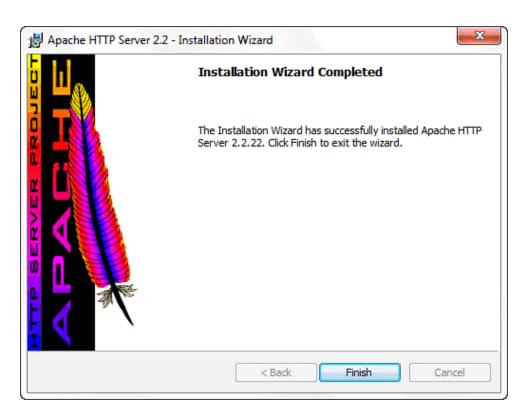
Next



□3-2 □□□□□□



Custom installation Control Co



____Apache______

3.6 Apache [[] [] [] []

3.6.1 □□

____Apache____

- 000000000

http://httpd.apache.org/docs/2.2/mod/quickreference.html

• Description ——
• Syntax ——
• Default ——
• Context ——
<pre>[][]server config[]virtual host[]directory[].htaccess[]</pre>
• override ——Apache DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
.htaccess per-directory
• Status —— Apache(core)
base extension
Processing Module MPM) DDDDDDDDDApache
experimental
• Module ——
• Compatibility —— DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
3.6.2
section
server config
Apache
<virtualhost> ——VirtualHostApache</virtualhost>

00000001P000000000000000002900000000	
 <directory>, <directorymatch> ——</directorymatch></directory>	
DDDDirectory	
DDDirectoryMatch	
4	
<pre><directorymatch "^="" .*="" [0-9]{4}"="" www=""></directorymatch></pre>	
 <location>, <locationmatch> ——</locationmatch></location>	
<pre>URLUURLUUUU</pre> <pre>Oirectory>, < DirectoryMatch>UU</pre>	
LocationMatch	
□"/my/data"□"/your/data"□□□□	
<locationmatch "="" (my your)="" data"=""></locationmatch>	
 <files>, <filesmatch> ——</filesmatch></files>	
Files	
1: <directory "="" directory"="" some=""> 2: SomeDirective1</directory>	
3: SomeDirective2 4:	
<pre>5: <location "="" *.html"="" downloads=""> 6: SomeDirective3</location></pre>	
7: 8: <files "\.(gif jpg)"=""></files>	
9: SomeDirective4 10:	

<pre>□□□□SomeDirective1□SomeDirective2□□□</pre>
$\verb / some/directory $
URL downloads/URL SomeDirective4
<pre>□.gif□.jpg□□□□□□□</pre>
3.6.3
Apache
□directives enclosed
• < If Define > —Apache
Apache
3.2apachectl
IfDefine
< fDefine !MyModule>
• < If Module > — Web If Module
ApacheMPM
httpd.confApache
MPM
□□□3.2 IfDefine□□
1: <ifdefine mymodule=""> 2: LoadModule my_module modules/libmymodule.so 3: </ifdefine>

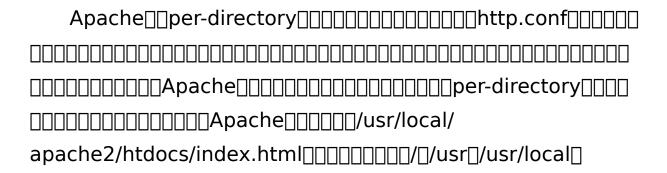
1:	<pre><ifmodule pre="" prefork.c<=""></ifmodule></pre>	>
2:	StartServers	5
3:	MinSpareServers	5
4:	MaxSpareServers	10
5:	MaxClients	20
6:	MaxRequestsPerChild	0
7:		
8:		
9:	<pre><ifmodule worker.c=""></ifmodule></pre>	
10:	StartServers	3
11.	MaxClients	8
	MinSpareThreads	5
	•	_
	MaxSpareThreads	10
14:	ThreadsPerChild	25
15:	MaxRequestsPerChild	0
16:		

3.6.4 ServerRoot□□

ServerRoot

Server

3.6.5 per-directory



usr/local/apache2]/usr/local/apache2/htdocs]]]]]]]]]]]]per-directory
AccessFileName DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
<pre></pre>
 AuthConfig —— [] [] [] FileInfo —— [] [] [] [] [] Indexes —— [] [] [] [] [] Limit —— [] [] [] [] [] Options —— [] [] [] [] []

per-dir	ectory[][][][][[][[
Apache□□□		

_____3.4 ___per-directory____

1: <Directory />

2: AllowOverride none

3: </Directory>

3.7 Apache [] []

3.7.1 access_log □ □

____3.5 access_log____

1: 127.0.0.1 - - [12/Mar/202:08:33:25 -0700] "GET / HTTP/1.1" 200 44 2: 127.0.0.1 - - [12/Mar/2012:08:33:25 -0700] "GET /favicon.ico HTTP/1.1" 404 209

3.7.2 error_log□□

____3.6 error_log____

```
1: Starting the Apache2.4 service [The Apache2.4 service is running.]
2: Apache/2.4.1 (Unix) configured -- resuming normal operations
3: [Tue Mar 13 08:29:34 2012] [notice] Server built: Mar 12 2012 11:47:22
4: [Tue Mar 13 08:29:34 2012] [notice] Parent: Created child process 3504
5: [Tue Mar 13 08:29:35 2012] [notice] Child 3504: Child process is running
6: [Tue Mar 13 08:29:35 2012] [notice] Child 3504: Acquired the start mutex.
3.7.3
      3.8 Apache
   Apache
___Apache_____
      Apache | | | | | | | | | | | |
3.8.1
   Apache□□□□□□Linux/UNIX□Mac OS X□□□httpd□□Windows
□□□/usr/local/apache2/bin/httpd -h □□Mac OS X□□
□/usr/sbin/httpd -h □□□Windows□□□□□□□□□□□apache.exe -h
□3-1
                      httpd□□
    П
       П
                           П
```

	-D	<pre></pre>
	-1	
-v 000000000		
	-f	http.conf
Δра	Apache[[ache[][][]]Linux/UNIX_Mac OS Xkill
# ki	ill -SIGNAL p	id
• HUP ——□□□□□□		

• SIGHUP —— [] [] []

Web
Windows apache.exe Apache
 apache.exe -k restart —— [Apache] [] [] apache.exe -k graceful —— Apache] [] [] apache.exe -k stop —— Apache] []
3.8.2 Apache[[[[[
<pre></pre>
/usr/local/apache2/bin/apachectl command
3.9 Apache

3.9.1

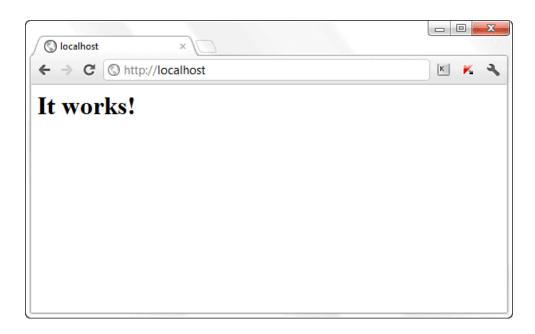
Apache
ServerName[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]

IDIDID	/ []
--------	-------------

3.9.2 □□Apache

/usr/local/apache2/bin/apachectl start

/usr/sbin/httpd



3.10
Apache
3.10.1
Apache
[crit] (48)Address already in use: make_sock: could not bind[alert] no listening sockets available, shutting down
Apache
3.10.2
[crit] (13)Permission denied: make_sock: could not bind to address 10.0.0.2:80 [alert] no listening sockets available, shutting down
8080
3.10.3
Apache
(13)Permission denied: httpd://could.not/open/error_log_file

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
3.10.4
DODDApache DODDApache Set group id DODDApache DODDApa
Clinux/UNIX Mac OS X C C C C C C C C C C C C C
3.11 [
<pre> []Linux/UNIX_Mac OS X_WindowsApache 2.2Apache 2.2Apache []Linux/UNIX_Mac OS X_WindowsApache []Apache []Apache []Apache []Apache []Apache []Apache []Apache []Apache []</pre>
3.12 Q&A
Q
AApacheApache

And per-directory
Web
Q[[[[[]]]]ServerName[[[[]]]]
A_DNSIPDDDDURLServerName
3.13 [[[[[
1Apache
2 <location> <directory> </directory></location>
30000000000000000

1 Linux/UNIX configure prefix Apache
Windows
2 Directory Docation Docation Web
300000000000000000000000000000000000000
Apache
1000000000000000000
2ServerName

	_4 _	P	ΗP	
 [] [] PHP [] [] [] PHP [] [] [] [] PHP [] []				
4.1 PHP				
PH	P 5.4.0 <u>□</u> [
PHP Group[][][][][][][][][][][][][][][][][][][]			bug PHP Group	
00000000000000000000000000000000000000	t/Change			000000 100/00000
0000000000	0000000C	000000000 10000000000	000000000000000000000000000000000000000	30000000 30000000



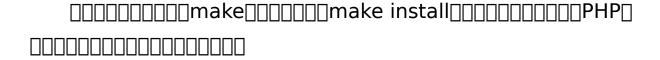
4.2 | | | | | | Apache | Linux/UNIX | | | | | PHP

gunzip < php-VERSION.tar.gz tar xvf -
cd php-VERSION
configureconfigureconfigureconfigureconfigureconfigureconfigureconfigureconfigure
<pre># ./configureprefix=/usr/local/php \with-mysqli=/usr/local/mysql/bin/mysql_config \with-apxs2=/usr/local/apache2/bin/apxs</pre>
MySQL_Apache

. . . Generating files updating cache ./config.cache creating ./config.status creating php5.spec creating main/build-defs.h creating scripts/phpize creating scripts/man1/phpize.1 creating scripts/php-config creating scripts/man1/php-config.1 creating sapi/cli/php.1 creating main/php config.h creating main/internal functions.c creating main/internal_functions_cli.c | License: | This software is subject to the PHP License, available in this | distribution in the file LICENSE. By continuing this installation | process, you are bound by the terms of this license agreement. | If you do not agree with the terms of this license, you must abort the installation process at this point. +-----+

Thank you for using PHP.

#



```
chmod 755 /usr/local/apache2/modules/libphp5.so
[activating module 'php5' in /usr/local/apache2/conf/httpd.conf]
Installing PHP CLI binary:
                  /usr/local/php/bin/
Installing PHP CLI man page:
                  /usr/local/php/php/man/man1/
Installing PHP CGI binary:
                  /usr/local/php/bin/
Installing build environment:
                  /usr/local/php/lib/php/build/
Installing header files:
                  /usr/local/php/include/php/
Installing helper programs:
                  /usr/local/php/bin/
 program: phpize
 program: php-config
Installing man pages:
                  /usr/local/php/php/man/man1/
 page: phpize.1
 page: php-config.1
#
  # cp php.ini-development /usr/local/lib/php.ini
  # cp libs/libphp5.so /usr/local/apache2/modules/
  Apache"
     □□□Linux/UNIX□□□□
  # ./configure --help
```

```
# ./configure --help > configortions.txt
 \squareApache\square\square\square\square\square\square
4.2.2 | Linux/UNIX | PHP Apache
 LoadModule php5 module
            modules/libphp5.so
 # AddType allows you to add to or override the MIME configuration
# file mime.types for specific file types.
#
 AddType application/x-httpd-php .php
 \square
```

[Tue Mar 13 10:42:47 2012] [notice] Apache/2.4.1 (Unix) PHP/5.4.0 configured

PHPApache WebMac OS X_
4.3 Mac OS X PHP
4.4 Windows PHP

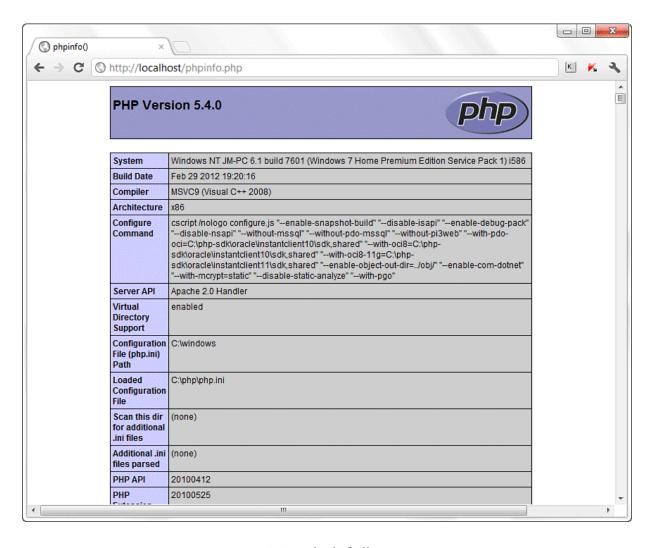
WindowsPHPPHP
0000000000000000000000000PHP00000PATH0000000000
http://www.php.net/manual/en/faq.installation.php#faq.installation.addtopath [
PHP FAQ

||Windows|||||PHP||Apache

```
___httpd.conf_____
# Example:
# LoadModule foo_module modules/mod_foo.so
LoadModule access module modules/mod access.so
#LoadModule vhost alias module modules/mod vhost alias.so
   LoadModule php5_module C:/php/php5apache2_2.dll
   PHPIniDir "C:/php/"
   # AddType allows you to add to or override the MIME configuration
# file mime.types for specific file types.
   AddType application/x-httpd-php .php
```

PHPphphtml
httpd.conf Apache Apache PHP
4.5 php.ini
php.ini
php.ini
4.6

PHPphpinfo()	
php phpinfo(); ?	



 $\square 4-1$ phpinfo() $\square \square$

4.7

http://www.php.net/mailing-lists.php | PHP | PHP

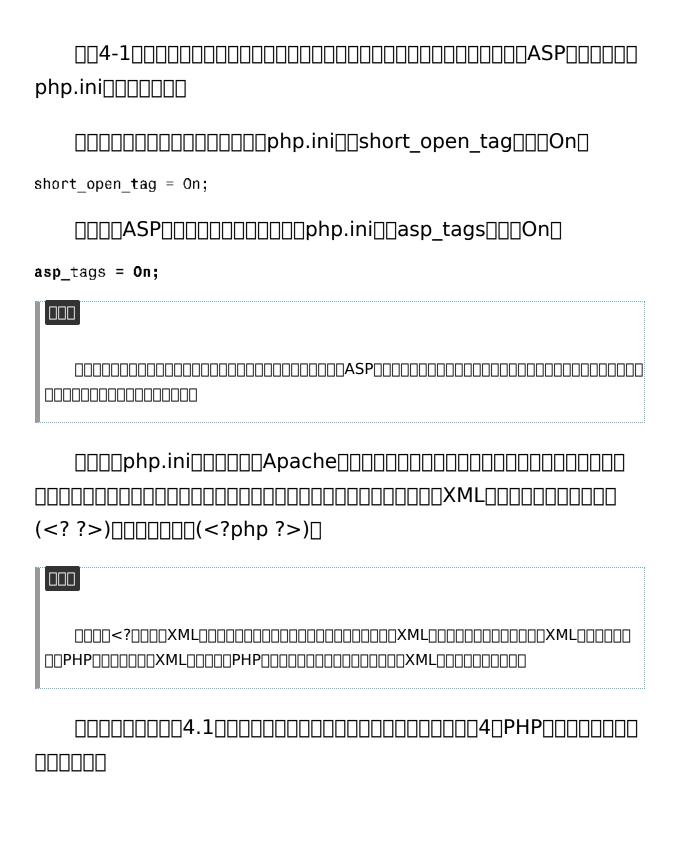
- 00000000
- ____PHP____
- 0000000

PHP
4.8 PHP[[[[[
PHPHTMLHTMLIDE
1: php<br 2: echo " <h1>Hello Web!</h1> "; 3: ?>
PHP



□4-2 □□:□□first.php□□□

0000		0000
0000	php</td <td>?></td>	?>
000	</td <td>?></td>	?>
ASP[][]	<%	%>
0000	<script language="php"></td><td></script>	



```
<?
echo "Hello Web!";
<?php
echo "Hello Web!";
<%
echo "Hello Web!";
%>
<script language="php">
echo "Hello Web!";
</script>
 <?php echo "Hello Web!"; ?>
 4.8.2
  echo print()
 ____print()____echo___echo_print()_____
\square
```

4.8.3 | HTML PHP

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>A PHP script including HTML</title>
5: </head>
6: <body>
7: <h1><?php echo "hello world"; ?></h1>
8: </body>
9: </html>
```



```
view-source:localhost/helloworld.php

view-source:localhost/helloworld.php

1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>A PHP script including HTML</title>
5 </head>
6 <body>
7 <h1>hello world</h1>
8 </body>
9 </html>
10
```

□4-4 helloworld.php□□□□HTML□□□


```
// this is a comment
# this is another comment
```

Γ	1	٦٢	٦	Γ	lΓ	٦٢	٦	П	Γ	ÌΓ	٦٢	٦	П	Γ	1	٦٢	٦	П	lΓ	٦٢	٦	(/×	k))[٦٢	٦	П	lΓ	7	٦٢	٦	П	Г	ÌГ	٦٢	٦	П	Г	lΓ	٦٢	٦ſ		Г	lΓ	٦٢	٦	П	Г	Ī	٦(*	1)[٦	
	ш	ш	- 1		ш	ш	- 1			ш	ш	- 1	ı	ш	ш	ш	- 1		ш	ш	- 1	\	,		"	ш	- 1	L	ш	ш	ш	- 1		ш	ш	ш	- 11		ш	ш	ш	ш	- 1	ı	ш	ш	ш	ı		ш	11		,	<i>1</i> I		1

/*
this is a comment
none of this will
be parsed by the
PHP engine
*/

4.9 □□

PHP 5.4.0 Apache Description Configure Description Des

4.10 Q&A

APHP
Q
A000000000000000000000000(php ?)000000
QPHP
AMicrosoft Word
Q
A DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

1Linux/UNIX
20000000.php0000000Apache0000000?
3_PHP
4000000Web000000000PHP000000
1PHPconfigure
./configurehelp
2000Apache000.php000000PHP000000000
AddType application/x-httpd-php .php
3_PHPphp.ini_
400000000000000
1PHPphp.ini
20000000PHP000000PHP00000000PHP000000000



2 PHP

- **||5|| PHP|||||**||
- **[6] PHP**[[][][][]
- **7**0 0000

5 PHP

5.1 []
variable

echo (2 + 4);

00000000000000204000000000000000000000
00000000000000000000000000000000000000
<pre>\$a; \$a_longish_variable_name; \$2453; \$sleepyZZZZ;</pre>
<pre>\$num2 = 23;</pre>

echo \$num1;
echo 8;
5.1.1 DDDD
COCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOCCOC
\$nameglobal scriptA.php_scriptB.php\$name\$name\$name\$name
00000000007000000
5.1.2 DDDD
PHPsuperglobal

- \$_GET_____GET_____
- \$_POST____POST_____
- \$_COOKIE_____cookie______
- \$_FILES______
- \$_SERVER______
- \$_REQUEST_____GET_POST_COOKIE_______
- \$_\$E\$\$ION______

5.2 [[[[[]]]

05-1000PHP0000800000000

5-1 00000

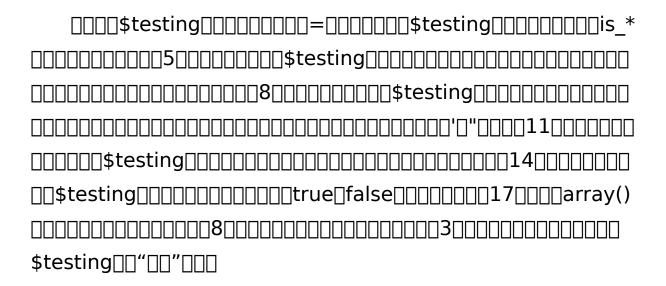
Boolean	true	true false
Integer	5	
Float□Double	3.234	
String	"hello"	
Object		
Array		
Resource		
NULL		

Resource _[]	100000000000000]//	JLL	

PHP______is_bool()



```
1: <?php
2: $testing; // declare without assigning
3: echo "is null? ".is_null($testing); // checks if null
4: echo "<br/>";
5: \$testing = 5;
6: echo "is an integer? ".is_int($testing); // checks if integer
7: echo "<br/>";
8: $testing = "five";
9: echo "is a string? ".is_string($testing); // checks if string
10: echo "<br/>";
11: \$testing = 5.024;
12: echo "is a double? ".is_double($testing); // checks if double
13: echo "<br/>";
14: $testing = true;
15: echo "is boolean? ".is bool($testing); // checks if boolean
16: echo "<br/>";
17: $testing = array('apple', 'orange', 'pear');
18: echo "is an array? ".is_array($testing); // checks if array
19: echo "<br/>";
20: echo "is numeric? ".is numeric($testing); // checks if is numeric
21: echo "<br/>";
22: echo "is a resource? ".is_resource($testing); // checks if is a resource
23: echo "<br/>";
24: echo "is an array? ".is_array($testing); // checks if is an array
25: echo "<br/>";
26: ?>
```



\$testing_____1

5.2.1 [][settype()[][][][][][][][]

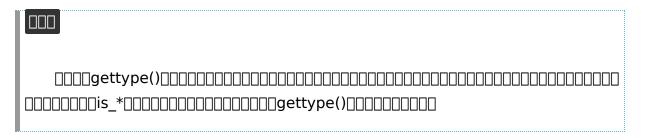
____5.2 __settype()______

```
1: <?php
2: $undecided = 3.14;
3: echo "is ".$undecided." a double? ".is_double($undecided)."<br/>"; // double
4: settype($undecided, 'string');
5: echo "is ".$undecided." a string? ".is_string($undecided)."<br/>"; // string
6: settype($undecided, 'integer');
7: echo "is ".$undecided." an integer? ".is_integer($undecided)."<br/>"; // integer
8: settype($undecided, 'double');
9: echo "is ".$undecided." a double? ".is_double($undecided)."<br/>"; // double
10: settype($undecided, 'bool');
11: echo "is ".$undecided." a boolean? ".is_bool($undecided)."<br/>"; // boolean
12: ?>
```

```
INNANANANWEBAANANANANANANANANANANANAN
is 3.14 a double? 1
is 3.14 a string? 1
is 3 an integer? 1
is 3 a double? 1
is 1 a boolean? 1
    5.2.2
                            Notettype()
NONDO DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DELLA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA
_____$newvar_$originalvar______
___$newvar______
$newvar = (integer) $originalvar
```

```
<?php
2: \$undecided = 3.14;
3: $holder = (double) $undecided;
4: echo "is ".$holder." a double? ".is_double($holder)."<br/>"; // double
5: $holder = (string) $undecided;
6: echo "is ".$holder." a string? ".is_string($holder)."<br/>"; // string
7: $holder = (integer) $undecided;
8: echo "is ".$holder." an integer? ".is_integer($holder)."<br/>"; // integer
9: $holder = (double) $undecided;
10: echo "is ".$holder." a double? ".is_double($holder)."<br/>'; // double
11: $holder = (boolean) $undecided;
12: echo "is ".$holder." a boolean? ".is_bool($holder)."<br/>"; // boolean
13: echo "<hr/>";
14: echo "original variable type of $undecided: ";
15: echo gettype($undecided); // double
16: ?>
```

____\$undecided_____\$undecided_____\$undecided_____\$ 15_____\$undecided_____\$undecided_____



```
is 3.14 a double? 1
is 3.14 a string? 1
is 3 an integer? 1
is 3.14 a double? 1
is 1 a boolean? 1
original variable type of 3.14: double
 "30cm" + "40cm"
 _______6ft2in"___6_______0
 $test = "30cm";
 \square
$newtest = (integer) $test;
echo "Your imaginary box has a width of $newtest centimeters.";
```

Your imaginary box has a width of 30 centimeters.
\$test
Your imaginary box has a width of 30cm centimeters.
5.2.3
5.3 [][][][][]

(4 + 5)
00405000000000000000000000000000000000
000000000000000000000PHP000000000
5.3.1
<pre>\$name = "Jimbo";</pre>
\$name

5.3.2 DDDD

5-2 0000

00000		
+00	10+3	13
-00	10-3	7
/00	10/3	3.333333333333
***	10*3	30
%[[10%3	1

5.3.3 DDDDD

```
"hello"." world"
 ПΠ
"hello world"
 nnnnnnnnnnnnnnnnnnnn world"nnn "world"nnn
"hello"."world"
 "helloworld"
 sm = 212;
echo "the width is ".($cm/100)." meters";
5.3.4
   x = 4;
x = x + 4; // x = x + 4;
 x = 4;
x += 4; // x now equals 8
```

5-3

0 0 0		
+=	\$x+=5	\$x=\$x+5
-=	\$x-=5	\$x=\$x-5
/=	\$x/=5	\$x=\$x/5
=	\$x=5	\$x=\$x*5
%=	\$x%=5	\$x=\$x%5
.=	\$x.="test"	\$x=\$x."test"

05-300000000000000\$×000000\$×000000000000

```
$x = 4;

$x += 4; // $x now equals 8

$x += 4; // $x now equals 12

$x -= 3; // $x now equals 9
```

5.3.5 [[[[[]]]]]

0PHP00000000000000000010010000000000000
00000000000000000000000000000000000000
x = x + 1; // $x = x + 1$; // $x = x + 1$; // $x = x + 1$
x += 1; // x is incremented by 1
\$x111
<pre>\$x++; // \$x is incremented by 1</pre>
0000000\$×00000010000000000000000000000
\$x; // \$x is decremented by 1
x = 3; y = x++ + 3;
\$y6(3 + 3)\$x1
1_PHP

```
++$x; // $x is incremented by 1
--$x; // $x is decremented by 1
 x = 3;
++$x < 4; // false
 5.3.6
   \square\square\square\square6\square\squareif\squarewhile\square\square\square
 x < 5
 false∏
 \Pi5-4\Pi\Pi\Pi\Pi\Pi\Pi
           ∏5-4
              □□($x□□4)
      П
       false
     x = 5
 ==
```

			(\$x 4)	0 0
!=	000		\$x!=5	true
===			\$x===4	true
			\$x==="4"	false
>			\$x>4	false
>=			\$x>=4	true
<			\$x<4	false
<=	00000	00000000	\$x<=4	true

==000

5.3.7 ...

truetrue_

][]true[]						
tru	and[][[& 	a	nd[][[
true	&& false)						
]fa	se					
(\$x >	· 2) && (\$x	< 15)						
	00\$×00		2000150000C][]
			□5-5					
		пп			П	П	П	

		□□□□□true		
П	Or	true	true false	true
or	Or	true	true or false	true
xor	Xor	truetrue	true xor true	false
&&	And	true	true && false	false
and	And	true	true and false	false

	0 0 0	0 0	□□□□□true	0 0	0 0	
	!	No	true	! true	false	
	1000000]and[][][][][][]			
5.3	3.8 _{[[}					
□□[4 +	00000C 1000000 5	100000C]]_PHP	10000000000000000000000000000000000000)00000C	
]PH	P00040500000000			
4 +	5 * 2					
	00000C)200000)000000	 14 [000000000000000000000000000000000000000]218_ 	 	ŀP□
	000000 1000000 5) * 2		000000000000000000000000000000000000000			
) 			

```
++, --, (cast)
/, *,%
+, -
<, <=, =>, >
==, ===, !=
&&
=, +=, -=, /=, *=, %=, .=
and
xor
or
 ____or_|| ____and_&&_____
$x and $y || $z
$x && ($y || $z)
 $x and ($y or $z)
```

5.4 []

constant PHP define()
define()define()
<pre>define("YOUR_CONSTANT_NAME", 42);</pre>
00000000000000000000000000000000000000
1: php 2: define("THE_YEAR", "2012"); 3: echo "It is the year ".THE_YEAR; 4: ?

It is the year 2012

```
define()
define("THE YEAR", "2012", true);
 echo the year;
echo ThE_YeAr;
echo THE YEAR;
 ANDONON LINE ANDONONANTAN'ANDON'ANDONONANTANANDON
http://www.php.net/manual/en/language.constants.predefin
ed.php []
 http://www.php.net/manual/en/reserved.constants.php □
5.5
  ПΠ
```

5.6 Q&A

Q0000000000000000

$A \square \square \square$				

5.7 || || ||


```
$a_value_submitted_by_a_user
$666666xyz
$xyz666666
$____counter___
$the first
$file-name
```



```
$num = 33;
(boolean) $num;
echo $num;
```

30000000000

```
echo gettype("4");
```

```
$test_val = 5.5466;
settype($test_val, "integer");
echo $test val;
```



```
4;
is_int(44);
5/12;
  6000500000000000000000
  7000000000000000
5 < 2
  1000$66666xyz000000000000000$the first00
000000000$file-name
  20000000330000000$num000000000000000
3_____"string"
  60005/12000000000
  700000000false0000000
```

10000000005	00000000000000]gettype()

- 0000000
- 000000
- 000000
- 000000000

[6] PHP[][][]

6.1
00000000000000000000000000000PHP000000——0

6.1.1 if□□

```
nnnnnn——nnnnnnnnntruennnnnnnnnnnnnnnnnnnnnnnn
if (expression) {
 // code to execute if the expression evaluates to true
}
  □□□□6.1 if□□
1: <?php
2: $mood = "happy";
3: if ($mood == "happy") {
   echo "Hooray! I'm in a good mood!";
5: }
6: ?>
  ______happy"_________true______true_____
Web_____
Hooray! I'm in a good mood!
  ____$mood____"sad"____"happy"________
ifnnnnnnnnnfalsennnnnnnnnnnnnnnnnnnnnnnnelsennn
6.1.2 □□else□□□if□□
```

```
nnnnnelsennnnnnnnnnifnnnnnnnn
if (expression) {
  // code to execute if the expression evaluates to true
} else {
  // code to execute in all other cases
}
   ПППП6.2 ППelseПifПП
1: <?php
2: $mood = "sad";
3: if ($mood == "happy") {
4: echo "Hooray! I'm in a good mood!";
5: } else {
    echo "I'm in a $mood mood.";
6:
7: }
8: ?>
   _____testifelse.php______Web_____
I'm in a sad mood.
   _____$mood_____"sad"____"happy"____3__
ifnnnnnnnfalsennnnnnnnnnn4nnnnnelsennnnnnnnn
\square\square\square\square\square\square\square\square\square'm in a sad mood\square\square\square\square"sad"\square\square\square\square\square\square$mood\square\square\square
   nnnnifnnnnelsennnnnnnnnnnnnnnnnnnnnnnn
either-ornnnnnnnifnnnnnnnnnnnnelsennnnnnnnnnn
```

6.1.3 □□□□elseif□□□if□□

0006.300000000elseif000

____6.3 ___else_elseif_if__

```
1: <?php
2: $mood = "sad";
3: if ($mood == "happy") {
        echo "Hooray! I'm in a good mood!";
5: } elseif ($mood == "sad") {
        echo "Awww. Don't be down!";
7: } else {
        echo "I'm neither happy nor sad, but $mood.";
9: }
10: ?>
```

_\$moodsad"2happy"4
smood"sad"
true 6 7 9
false\$mood

Awww. Don't be down!

_\$mood____"iffy"_______

I'm neither happy nor sad, but iffy.

6.1.4 switch □□

switch[][][][][][][][][][][][][][][][][][][]
switch
breakswitch

0006.400switch00000if000000

□□□6.4 switch□□

```
1: <?php
2: $mood = "sad";
3: switch ($mood) {
      case "happy":
5:
          echo "Hooray! I'm in a good mood!";
         break;
6:
7:
     case "sad":
          echo "Awww. Don't be down!";
8:
9:
         break;
10: default:
            echo "I'm neither happy nor sad, but $mood.";
11:
12:
            break;
13: }
14: ?>
```

9 break 10 12
Awww. Don't be down!
\$mood "happy"
Hooray! I'm in a good mood!
Awww. Don't be down!I'm neither happy nor sad, but sad.
break
6.1.5
0000000if00000000000000000000000000000
<pre>(expression) ? returned_if_expression_is_true : returned_if_expression_is_false;</pre>

```
1: <?php
2: $mood = "sad";
3: $text = ($mood == "happy") ? "I am in a good mood!" : "I am in a $mood
 mood.";
4: echo "$text";
5: ?>
  _____testten.php______Web_____
I am in a sad mood.
  6.2 □□
ПП
6.2.1 while □ □
  while______if_______
while (expression) {
   // do something
}
  ]_____iteration_______________while____
```

□□□□6.6 while□□

```
1 times 2 is 2
2 times 2 is 4
3 times 2 is 6
4 times 2 is 8
5 times 2 is 10
6 times 2 is 12
7 times 2 is 14
8 times 2 is 16
9 times 2 is 18
10 times 2 is 20
11 times 2 is 24
```

6.2.2 do...while□□

dowhilewhile
<pre>do { // code to be executed } while (expression);</pre>
dowhile
□□□□6.7 dowhile□□
1: php 2: \$num = 1; 3: do { 4: echo "The number is: ".\$num."<br / "; 5: \$num++; 6: } while ((\$num > 200) && (\$num < 400)); 7: ?>
dowhile\$num2004002 \$num1false dowhile
The number is: 1
2\$num300
The number is: 300

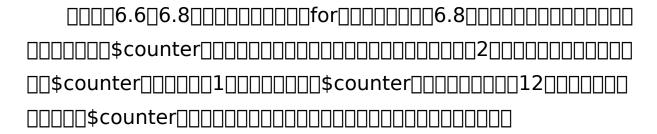
The number is: 399

6.2.3 for □□

□□□□6.8 □□for□□

```
1: <?php
2: for ($counter=1; $counter<=12; $counter++) {
3:    echo $counter." times 2 is ".($counter * 2)."<br/>
4: }
5: ?>
```

```
1 times 2 is 2
2 times 2 is 4
3 times 2 is 6
4 times 2 is 8
5 times 2 is 10
6 times 2 is 12
7 times 2 is 14
8 times 2 is 16
9 times 2 is 18
10 times 2 is 20
11 times 2 is 24
```



 $\square\square\square\square6.9$ $\square\square\square\square10\square\square\square4000\square$ for $\square\square$

```
1: <?php
2: for ($counter=1; $counter <= 10; $counter++) {
3:    $temp = 4000/$counter;
4:    echo "4000 divided by ".$counter." is...".$temp."<br />";
5: }
6: ?>
```

```
4000 divided by 1 is... 4000
4000 divided by 2 is... 2000
4000 divided by 3 is... 1333.33333333
4000 divided by 4 is... 1000
4000 divided by 5 is... 800
4000 divided by 6 is... 666.666666667
4000 divided by 7 is... 571.428571429
4000 divided by 8 is... 500
4000 divided by 9 is... 444.44444444
4000 divided by 10 is... 400
```

___6.10 __break__

```
1: <?php
2: scounter = -4;
3: for (; $counter <= 10; $counter++) {
       if ($counter == 0) {
           break;
5:
6:
       } else {
7:
           temp = 4000/scounter;
           echo "4000 divided by ".$counter." is...".$temp."<br />";
8:
9:
       }
10: }
11 ?>
```

4000 divided by -4 is1000 4000 divided by -3 is1333.3333333 4000 divided by -2 is2000 4000 divided by -1 is4000
?
6.2.5 continue
continue[][][][][][][][][][][][][][][][][][][]
. 10 . 101 10184

___6.11 __continue__

```
1: <?php
2: $counter = -4;
3: for (; $counter <= 10; $counter++) {
4:    if ($counter == 0) {
5:        continue;
6:    }
7:    $temp = 4000/$counter;
8:    echo "4000 divided by ".$counter." is...".$temp."<br/>
9: }
10: ?>
```

||5|||||||continue||||||||break||||||||\$counter||||||0|||||

6.2.6 □□□□

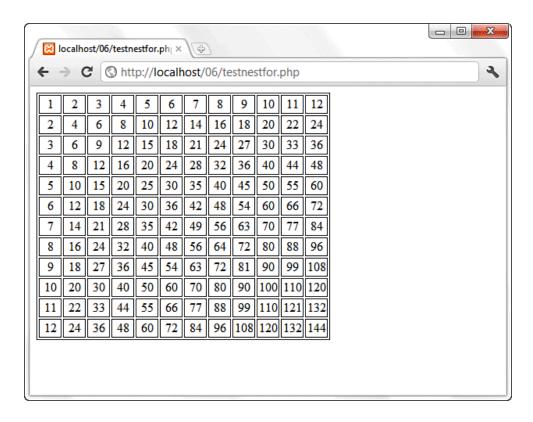
□□□□6.12 □□□□for□□

```
1: <?php
2: echo " \n";
  for ($y=1; $y<=12; $y++) {
     echo " \n";
4:
5:
     for ($x=1; $x<=12; $x++) {
         echo "<td style=\"border: 1px solid #000; width: 25px;
6:
7:
                text-align:center;\">";
         echo (x * y);
8:
9:
         echo " \n";
10:
11:
     echo " \n";
12:
13: echo "";
14: ?>
```

000for000000000000006.12000200

echo " \n";

]



[6-1] testnestfor.php[]

6.3	П			Ш

 13000

____6.13 ____echo



 \square 6-2 testmultiecho.php \square \square

```
1: <?php
2: $display_prices = true;
3: if ($display_prices) {
4: ?>
5: 
6: today's prices in dollars
7: $1.00
8: 
9: <?php
10: }
11: ?>
```

6.4 □□

6.5 Q&A

A0000000000000000000000000000000000000
6.6
1\$age18_35if _"Youth message"\$age"Generic message"
2\$age1_1711Child message"_
3000001049000000000while000
43whilefor
1.
<pre>\$age = 22;</pre>
if ((\$age >= 18) && (\$age <= 35)) { echo "Youth message";

} else {

}

echo "Generic message";

```
2.
```

```
age = 12;
if (($age >= 18) && ($age <= 35)) {
    echo "Youth message";
} elseif (($age >= 1) && ($age <= 17)) {</pre>
    echo "Child message";
} else {
    echo "Generic message";
}
     3.
num = 1;
while (num <= 49) {
    echo $num."<br />";
    $num += 2;
}
    4.
for ($num = 1; $num <= 49; $num += 2) {
    echo $num."<br />";
}
```

_7 _		

- 0000000000000000
- ________
- חחחחחחחחחחחח
- חחחחחחח"ח

7.1 0000

7.2
<pre>strtoupper("Hello Web!");</pre>
some_function(\$an_argument, \$another_argument);
strtoupper()strtoupper()
<pre>\$new_string = strtoupper("Hello Web!");</pre>
\$new_string
echo \$new_string;
HELLO WEB!

	print() echo()
7.1[000abs()000000000000000000000000000000000000
	7.1abs()
3: \$n 4: ec	num = -321; newnum = abs(\$num); no \$newnum; prints "321"
	321\$num\$newnum
321	
	00000000000000000000000000000000000000
echo	abs(-321);

7.3 | | | | | | |

____function

```
function some_function($argument1, $argument2)
{
    //function code here
}
```


00007.20000000000

00007.2 00000000

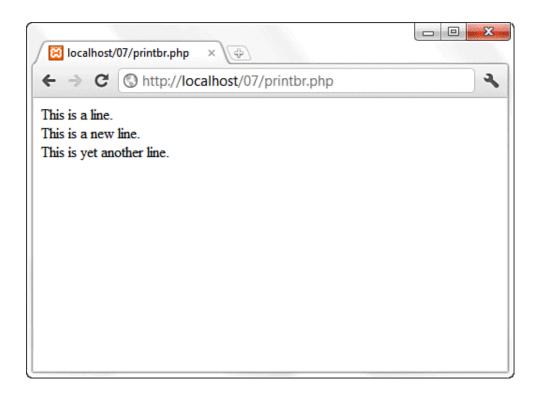
_____ bighello.php ______ Web___ Web___



□7-1 bighello.php□□□

00007.3 0000000000

printbr()_PRINTBR()

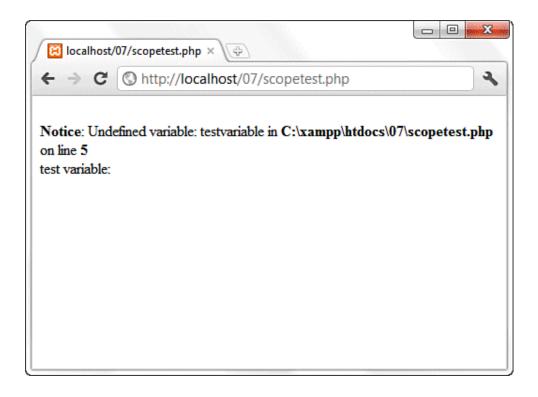


07-2 0000000000000
br/>0000

printBR()
return
return
0007.4000000000000
00007.4 0000000
1: php 2: function addNums(\$firstnum, \$secondnum) 3: { 4: \$result = \$firstnum + \$secondnum; 5: return \$result;</td
6: } 7: echo addNums(3,5); 8: //will print "8" 9: ?>
addnums.phpWeb
8
returnreturnreturn
return 4;
return \$a/\$b;

return another function(\$an argument);

7.5

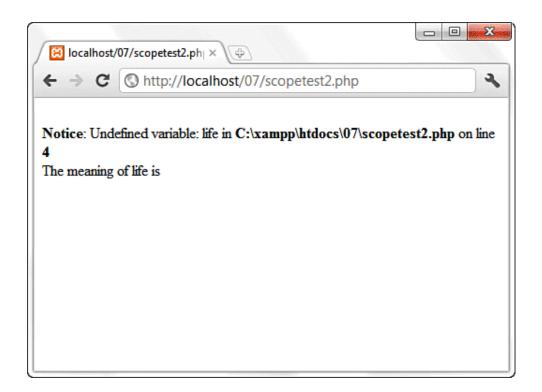


□7-3 scopetest.php□□□

\$testvariabletest()
global

```
1: <?php
2: $life = 42;
3: function meaningOfLife()
4: {
5:    echo "The meaning of life is ".$life";
6: }
7: meaningOfLife();
8: ?>
```

_____scopetest2.php______Web__



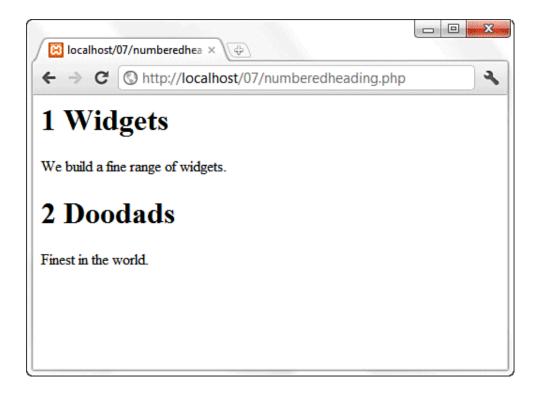
```
1: <?php
2: $life=42;
3: function meaningOfLife()
4: {
5:     global $life;
6:     echo "The meaning of life is ".$life";
7: }
8: meaningOfLife();
9: ?>
```

_____scopetest3.php______Web__



meaningOfLife() \$life 4 global
00000000000000000000000000000000000000
global
global \$var1, \$var2, \$var3;
00000000000000000000000000000000000000
7.6

```
1: <?php
3: function numberedHeading($txt)
4:
5:
       global $num of calls;
6:
       $num_of_calls++;
7:
       echo "<h1>".$num_of_calls." ".$txt."</h1>";
8: }
9: numberedHeading("Widgets");
10: echo "We build a fine range of widgets.";
11: numberedHeading("Doodads");
12: echo "Finest in the world.";
13: ?>
```



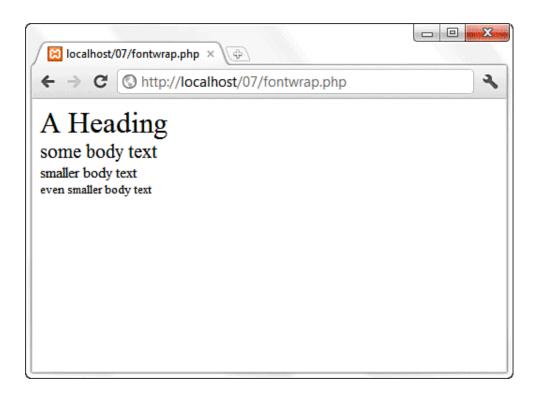
```
1: <?php
2: function numberedHeading($txt)
3: {
4:     static $num_of_calls = 0;
5:     $num_of_calls++;
6:     echo "<h1>".$num_of_calls." ". $txt."</h1>";
7: }
8: numberedHeading("Widgets");
9: echo "We build a fine range of widgets.";
10: numberedHeading("Doodads");
11: echo "Finest in the world.";
12: ?>
```

7.7 ______

7.7.1 0000000

00007.10 0000000000

```
1: <?php
2: function fontWrap($txt, $fontsize)
3: {
4:    echo "<span style=\"font-size:$fontsize\">".$txt."</span>";
5: }
6: fontWrap("A Heading<br/>","24pt");
7: fontWrap("some body text<br/>","16pt");
8: fontWrap("smaller body text<br/>","12pt");
9: fontWrap("even smaller body text<br/>","10pt");
10: ?>
```



07-7 00000000000000

00007.11 0000000000

```
1: <?php
2: function fontWrap($txt, $fontsize = "12pt")
3: {
4:     echo "<span style=\"font-size:$fontsize\">".$txt."</span>";
5: }
6: fontWrap("A Heading<br/>","24pt");
7: fontWrap("some body text<br/>");
8: fontWrap("smaller body text<br/>");
9: fontWrap("even smaller body text<br/>");
10: ?>
```

|--|--|

7.7.2 000000000

00007.12 0000000000000

______ Web ______ Web _____

10

\$orignum
010000000000000000000000000000000000000

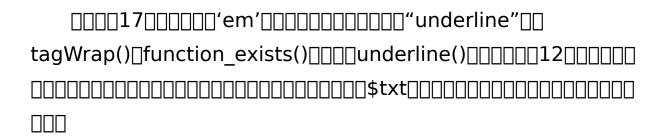
_______Web____

15

7.8 0000000

00007.14 000000000

```
1: <?php
   function tagWrap($tag, $txt, $func = "")
3:
4:
        if ((!empty($txt)) && (function_exists($func))) {
5:
            txt = func(txt);
            return "<".$tag.">".$txt."</".$tag."><br/>";
6:
7:
           return "<strong>".$txt."</strong><br/>";
8:
9:
        }
10: }
11:
12: function underline($txt)
13: {
14:
       return "<span style=\"text-decoration:underline;\">".$txt."</span>";
15: }
16: echo tagWrap('strong', 'make me bold');
17: echo tagWrap('em', 'underline and italicize me', "underline");
18: echo tagWrap('em', 'make me italic and quote me',
19: create_function('$txt', 'return ""$txt"";'));
20: ?>
```





□7-8 exists.php□□□

```
200000000000
  3000000000000000000
number = 50;
function tenTimes() {
  $number = $number * 10;
tenTimes();
echo $number;
```

```
number = 50;
function tenTimes() {
   global $number;
   number = number * 10;
}
tenTimes();
echo $number;
```

```
number = 50;
function tenTimes( &$n ) {
   n = n * 10;
}
tenTimes( $number );
echo $number;
```



}

2return
350_tenTimes()\$number \$number_
4500globaltenTimes() \$number
5500\$n&\$n\$n_ \$number\$n\$n\$number
1 000000000000000000000000000000000000
200000000400000000000000000000HTML00000

• 000000000000000 • 0000 PHP 00000000000
000000000PHP00000000000000000000000000
8.1
00000000000000000000000000000000000000
00000000000000000000000000000000000000
8.2

```
$rainbow = array("red", "orange", "yellow", "green", "blue", "indigo",
 "violet");
  $rainbow[] = "red";
$rainbow[] = "orange";
$rainbow[] = "yellow";
$rainbow[] = "green";
$rainbow[] = "blue";
$rainbow[] = "indigo";
$rainbow[] = "violet";
  rainbow[0] = "red";
$rainbow[1] = "orange";
$rainbow[2] = "yellow";
$rainbow[3] = "green";
$rainbow[4] = "blue";
$rainbow[5] = "indigo";
$rainbow[6] = "violet";
  rainbow[0] = red;
$rainbow[1] = "orange";
$rainbow[2] = "yellow";
$rainbow[5] = "green";
$rainbow[6] = "blue";
rainbow[7] = "indigo";
$rainbow[8] = "violet";
```

```
NONDO DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DELIGIO DE LA CONTRETA DE LA CONTRETA DE LA CONTRETA DE LA CONTRETA DELIGIO DELIGIO DE LA CONTRETA DELIGIO D
$rainbow = array("red", "orange", "yellow", "green", "blue", "indigo");
$rainbow[] = "violet";
            8.2.1
                           $character = array(
                                    "name" => "Bob",
                                    "occupation" => "superhero",
                                    "age" => 30,
                                    "special power" => "x-ray vision"
                                    );
            power Bob Bob superhero 30 x-ray vision Bob Bob superhero
echo $character['occupation'];
            superhero
            $character['supername'] = "Mega X-Ray Guy";
            □□□□□□□□□□supername□□□□□□Mega X-Ray Guy□
```

8.2.2 DDDDD

```
<?php
    $characters = array(
                      array(
                        "name" => "Bob",
4:
                        "occupation" => "superhero",
5:
                        "age" => 30,
6:
                        "special power" => "x-ray vision"
7:
                       ),
9:
                      array(
10:
                        "name" => "Sally",
                        "occupation" => "superhero",
11:
12:
                        "age" => 24,
                        "special power" => "superhuman strength"
13:
14:
15:
                       array(
                        "name" => "Jane",
16:
17:
                        "occupation" => "arch villain",
                        "age" => 45,
18:
                        "special power" => "nanotechnology"
19:
20:
21:
                    );
22: ?>
```

age[]special power[]
echo \$characters[1];
Array
echo \$characters[1]['occupation'];
superhero
000000000008.10000000000000000000000000
<pre>foreach (\$characters as \$c) { while (list(\$k, \$v) = each (\$c)) { echo "\$k \$v "; } echo "<hr/>"; }</pre>
foreach\$characters\$c
00000000000000000000000000000000000000

```
localhost/08/mdarray.php × C http://localhost/08/mdarray.php

name ... Bob occupation ... superhero age ... 30 special power ... x-ray vision

name ... Sally occupation ... superhero age ... 24 special power ... superhuman strength

name ... Jane occupation ... arch villain age ... 45 special power ... nanotechnology
```

8.3

• count() sizeof() --- "| "| sizeof() --- "| scolors = array("blue", "black", "red", "green");

```
count($colors)∏∏sizeof($colors)∏∏∏∏∏4∏
• foreach()——______
reset($character);
 • array push()——_______
array_push($existingArray, "element 1", "element 2", "element 3");
$last_element = array_pop($existingArray);
array_unshift($existingArray, "element 1", "element 2", "element 3");
• array shift()——_______
 $first_element = array_shift($existingArray);
$newArray = array_merge($array1, $array2);
• array_keys()——______
ПΠ
$keysArray = array keys($existingArray);
```

• array_values()——
<pre>\$valuesArray = array_values(\$existingArray);</pre>
• shuffle()————————————————————————————————————
http://www.php.net/array PHP
8.4
8.5 Q&A
Q
A0000000000000000000000000000000000000

 \mathbf{Q}



□□□□□Alien□Terminator 3□Star	Wars

000000000000000000000000
00000000000000000000000000000000000000
PHP
000000000000000000PHP000000PHP000000
9.1

DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
Class myClass { //code will go here }

```
$object1 = new myClass();
 1: <?php
2: class myClass {
  //code will go here
4: }
5: $object1 = new myClass();
6: echo "\$object1 is an ".gettype($object1).".<br/>";
8: if (is_object($object1)) {
  echo "Really! I swear \$object1 is an object!";
9:
10: }
11: ?>
 $object1 is an object.
Really! I swear $object1 is an object!
 9.1.1
```

```
public$color = "silver";
   public$make = "Mazda";
   public$model = "Protege5";
}
   _____public______protected__
____private
   0000000myCar00000030000009.20000000000
1: <?php
2: class myCar {
   public$color = "silver";
   public$make = "Mazda";
4:
5:
   public$model = "Protege5";
6: }
7: car = new myCar();
8: echo "I drive a: ".$car -> color." ".$car -> make." ".$car -> model;
9: ?>
   I drive a: silver Mazda Protege5
   □□□□□□□□□□□□Mazda Protege5□□□□□□□□□□□□□□myCar□□
<u>____9.3</u> <u>____</u>
```

class myCar {

```
1: <?php
2: class myCar {
3:    public$color = "silver";
4:    public$make = "Mazda";
5:    public$model = "Protege5";
6: }
7:    $car = new myCar();
8:    $car -> color = "red";
9:    $car -> make = "Porsche";
10:    $car -> model = "Boxter";
11: echo "I drive a: ".$car -> color." ".$car -> make." ".$car -> model;
12: ?>
```

_____objproperties2.php

I drive a: red Porsche Boxter

\$color_\$make_\$model881010	

9.1.2 □□□□

00009.4 0000000

```
1: <?php
2: class myClass {
3:     function sayHello() {
4:         echo "HELLO!";
5:     }
6: }
7: $object1 = new myClass();
8: $object1 -> sayHello();
9: ?>
```

HELLO!

```
1: <?php
2: class myClass {
3:    public$name = "Jimbo";
4:    function sayHello() {
5:        echo "HELLO! My name is ".$this->name;
6:    }
7: }
8: $object1 = new myClass();
9: $object1 -> sayHello();
10: ?>
```

HELLO! My name is Jimbo

```
1: <?php
2: class myClass {
     public$name = "Jimbo";
4:
      function setName($n) {
           this -> name = n;
6:
7:
    function sayHello() {
           echo "HELLO! My name is ".$this->name;
9:
10: }
11: $object1 = new myClass();
12: $object1 -> setName("Julie");
13: $object1 -> sayHello();
14: ?>
```

____helloclass3.php______Web_____

HELLO! My name is Julie

9.1.3 □□□□

9.2

00009.7 00000000

```
1: <?php
2: class myClass {
      public$name = "Matt";
      function myClass($n) {
4:
            this -> name = n;
6:
7:
      function sayHello() {
            echo "HELLO! My name is ".$this->name;
8:
9:
10: }
11: class childClass extends myClass {
12: //code goes here
13: }
14: $object1 = new childClass("Baby Matt");
15: $object1 -> sayHello();
16: ?>
```

_____inheritance.php______Web______

HELLO! My name is Baby Matt

```
<?php
   class myClass {
   public$name = "Matt";
2:
4:
       function myClass($n) {
5:
            this -> name = n;
6:
7:
       function sayHello() {
            echo "HELLO! My name is ".$this->name;
8:
9:
10: }
11: class childClass extends myClass {
        function sayHello() {
             echo "I will not tell you my name.";
13:
14:
15: }
16: $object1 = new childClass("Baby Matt");
17: $object1 -> sayHello();
18: ?>
```

_____inheritance2.php______Web_____

I will not tell you my name

E-mailXML
00000000000000000000000000000000000000
9.3
9.4 Q&A
Qprotected_
APHPvarprivate_protected_
Q000000PHP00000000000000000000000000000

A0000000000000000000000000000000000000
9.5 [[[[[
1emptyClass?
2000000000000
3private
<pre>1 Class Class emptyClass { }</pre>
200000000000000000

3private	
----------	--

- | | | |

- 00000000
- חחחחחחחחחחח

- 00000000
- חחחחחחחחחחחח

- ________
- 00000000

00000000000000000000000000000000P	2HP000000000000000000000000000000000000

10.1.1 □□printf()

```
<?php
printf("This is my number: %o", 55);
// prints "This is my number: 67"
?>
```

____printf()_____

```
<?php
printf("First number: %f<br/>>Second number: %f<br/>", 55, 66);
// Prints:
// First number: 55.000000
// Second number: 66.000000
?>
```

printf()5566	
_ftype specifier	

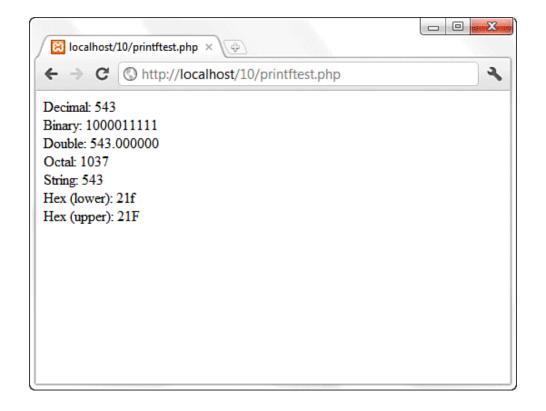
printf()

10-1 0000

0 0 0	
d	
b	
С	
f	
0	000000800000000
S	
х	
Х	

____10.1__printf()____10-1_____

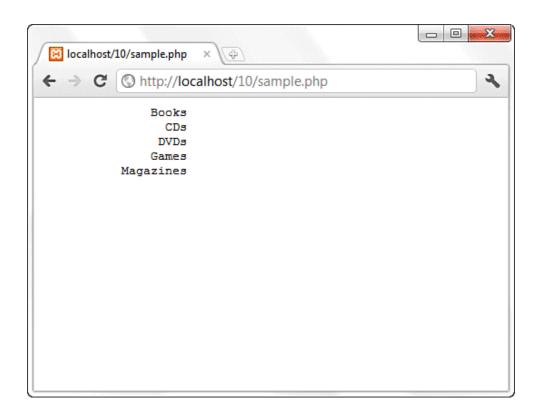
```
1: <?php
2: $number = 543;
3: printf("Decimal: %d<br/>", $number);
4: printf("Binary: %b<br/>", $number);
5: printf("Double: %f<br/>", $number);
6: printf("Octal: %o<br/>", $number);
7: printf("String: %s<br/>", $number);
8: printf("Hex (lower): %x<br/>", $number);
9: printf("Hex (upper): %X<br/>", $number);
10: ?>
```



 $\Pi\Pi$ <?php pred = 204;green = 204;\$blue = 204;printf("#%X%X%X", \$red, \$green, \$blue); // prints "#CCCCCC" ?> <?php printf("%04d", 36); // prints "0036" ?> <?php printf("% 4d", 36) // prints " 36"

```
<?php
    echo "The
                                                             spaces will be visible";
    ?>
    ______Content-Type
    header("Content-Type: text/plain");
                 nnnnnnheader()nnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
<?php
printf ("%'x4d", 36);
// prints "xx36"
?>
                 NONDO DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DELIGIO DE LA CONTRETA DE LA CONTRETA DE LA CONTRETA DE LA CONTRETA DELIGIO DELIGIO DE LA CONTRETA DELIGIO DELIGIO DE LA CONTRETA DELIGIO DE LA CONTRETA DELIGIO DELIGIO DE LA CONTRETA DELIGIO DELI
<?php
red = 1;
green = 1;
$blue = 1;
printf("#%02X%02X%02X", $red, $green, $blue);
// prints "#010101"
?>
 10.1.2
                                           __________field width specifier_____
```

```
<?php
echo "<pre>";
printf("%20s\n", "Books");
printf("%20s\n", "CDs");
printf("%20s\n", "DVDs");
printf("%20s\n", "Games");
printf("%20s\n", "Magazines");
echo "";
?>
```

```
printf("%-20s\n", "Left aligned");
```



```
<?php
printf("%.2f", 5.333333);
// prints "5.33"
?>
```

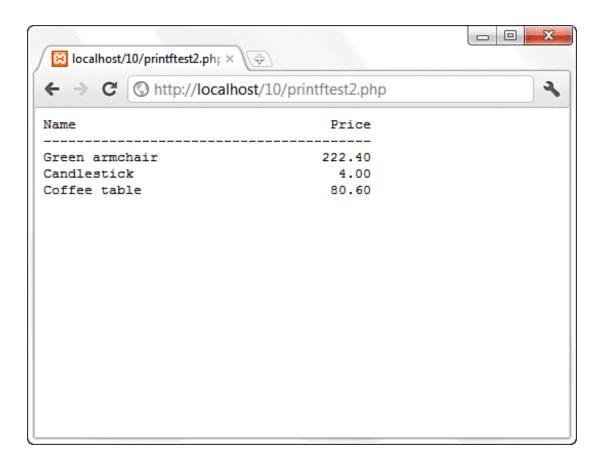

10-2

0 0	
00000	' 4'
000000	'20'

00000	'.4'
00000	'd'

```
1: <?php
2: $products = array("Green armchair" => "222.4",
3: "Candlestick"=> "4",
4: "Coffee table"=> "80.6");
5: echo "";
6: printf("%-20s%20s\n", "Name", "Price");
7: printf("%'-40s\n", "");
8: foreach ($products as $key=>$val) {
9: printf( "%-20s%20.2f\n", $key, $val );
10: }
11: echo "";
12: ?>
```

"%-20s%20s\n"



10.1.3

```
<?php
$dates = array(
    array('mon'=> 12, 'mday'=>25, 'year'=>2011),
    array('mon'=> 1, 'mday'=>23, 'year'=>2012),
    array('mon'=> 10, 'mday'=>29, 'year'=>2011)
$format = include("local_format.php");
foreach($dates as $date) {
  printf("$format", $date['mon'], $date['mday'], $date['year']);
}
?>
  <?php
return "%02d/%02d/%d<br/>";
  _____mm/dd/yyyy
12/25/2011
01/23/2012
10/29/2011
  return "%2\$02d/%1\$02d/%3\$d<br/>";
  %2\$02d
  %1\$02d
```

%3\\$d
25/12/2011 23/01/2012 29/10/2011
10.1.4
printf()sprintf()
printf()
sprintf()
<pre><?php \$cash = sprintf("%.2f", 21.334454); echo "You have \\$\$cash to spend."; // Prints "You have \$21.33 to spend." ?></pre>
sprintf()sprintf()
10.2 PHP
Web
10.2.1

```
<?php
$test = "phpcoder";
echo $test[0]; // prints "p"
echo $test[4]; // prints "o"
?>
```

10.2.2 [][strlen()[][][][][][][][]

```
<?php
$membership = "pAB7";
if (strlen($membership) == 4) {
    echo "<p>Thank you!";
} else {
    echo "Your membership number must be four characters long.";
}
?>
```



```
<?php
$membership = "pAB7";
if (strstr($membership, "AB")) {
    echo "<p>Your membership expires soon!";
} else {
    echo "Thank you!";
}
?>
```



```
<?php
$membership = "mz00xyz";
if (strpos($membership, "mz") === 0) {
   echo "Hello mz!";
}
?>
```

_______strpos()_____false____false____false


```
<?php
$test = "phpcoder";
echo substr($test,3)."<br/>"; // prints "coder"
echo substr($test,3,2)."<br/>"; // prints "co"
?>
```

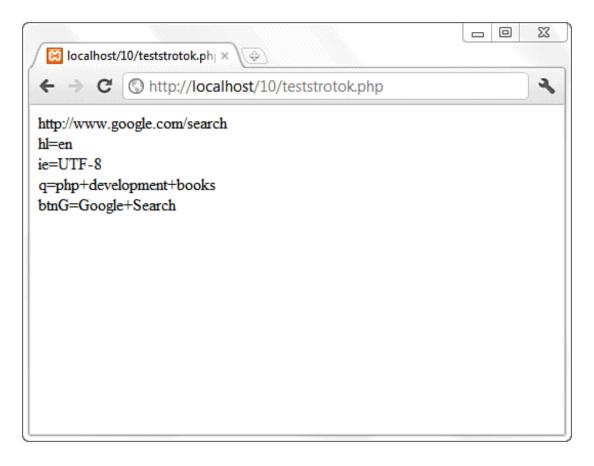
```
<?php
$test = "pierre@wanadoo.fr";
if ($test = substr($test, -3) == ".fr") {
    echo "<p>Bonjour! Nous avons des prix spéciaux de vous.";
} else {
    echo "Welcome to our store.";
}
?>
```


strtok()
00000000000000000000000000000000000000
strtok()UUUU10.3strtok()UURL

____10.3 ___strtok()______

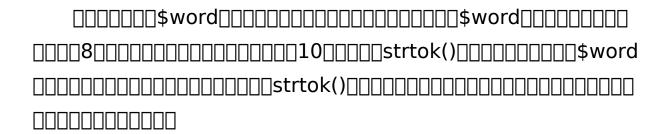
```
1: <?php
2: $test = "http://www.google.com/search?";
3: $test .= "hl=en&ie=UTF-8&q=php+development+books&btnG=Google+Search";
4: $delims = "?&";
5: $word = strtok($test, $delims);
6: while (is_string($word)) {
7:    if ($word) {
8:        echo $word."<br/>";
9:    }
10:    $word = strtok($delims);
11: }
12: ?>
```

______ teststrtotok.php _______Web



 \square 10-4 teststrtotok.php \square

strtok()
\$delims5strtok()URL\$delims
\$word6while
\$word
\$word



10.3 | PHP | | | | |

 $\Pi\Pi$

PHP


```
<?php
$text = "\t\tlots of room to breathe ";
echo "$text";
// prints "
           lots of room to breathe
$text = rtrim($text);
echo "$text";
// prints "
           lots of room to breathe";
?>
  <?php
$text = "\t\tlots of room to breathe ";
echo "$text";
// prints "
           lots of room to breathe
$text = ltrim($text);
echo "$text";
// prints "lots of room to breathe ";
?>
  strip_tags()_____strip_tags()_______
strip tags()____HTML__________
<?php
$string = "\"I <em>simply</em> will not have it,\" <br/>said Mr Dean.
<strong>The end.</strong>";
echo strip_tags($string, "<br/>");
  _____HTML______Strip tags()_____
$string______$
\Pi\Pi\Pi\Pi\Pi  \Pi\Pi\Pi\Pi\Pi  \Pi\Pi\Pi\Pi\Pi\Pi
```

```
"I simply will not have it,"
said Mr Dean.
The end.
  Description:
Description:
10.3.2
  substr_replace()___substr()_______
<?php
$membership = "mz11xyz";
$membership = substr_replace($membership, "12", 2, 2);
echo "New membership number: $membership";
// prints "New membership number: mz12xyz"
?>
  10.3.3 [][str_replace()[][][][]
  str_replace()_____3___
\Pi\Pi\Pi\Pi\Pi\Pi\Pistr replace()\Pi\Pi\Pi\Pi\Pi\Pi\Pi\Pi\Pi\Pi2010\Pi\Pi\Pi\Pi\Pi\Pi2012\Pi
<?php
$string = "<h1>The 2010 Guide to All Things Good in the World</h1>";
$string .= "Site contents copyright 2010.";
echo str replace("2010","2012",$string);
?>
```

```
<?php
$source = array(
    "The package which is at version 4.2 was released in 2005.",
    "The year 2005 was an excellent time for PointyThing 4.2!");
$search = array("4.2", "2005");
$replace = array("6.3", "2012");
$source = str_replace($search, $replace, $source);
foreach($source as $str) {
    echo "$str<br>";
}
?>
```

The package which is at version 6.3 was released in 2012. The year 2012 was an excellent time for PointyThing 6.3!

10.3.4 ППППП

```
<?php
$membership = "mz11xyz";
$membership = strtoupper($membership);
echo "$membership"; // prints "MZ11XYZ"
?>
```

```
<?php
$membership = "MZ11XYZ";
$membership = strtolower($membership);
echo "$membership"; // prints "mz11xyz"
?>
           PHP______ucwords()_______
<?php
$full_name = "violet elizabeth bott";
$full_name = ucwords($full_name);
echo $full name; // prints "Violet Elizabeth Bott"
?>
           □□□□Shift□□□□□□□□□□□VIolEt eLIZaBeTH bOTt□ucwords()□□□□
____ucwords()____strtolower()______
<?php
$full name = "VIolEt eLIZaBeTH bOTt";
$full name = ucwords(strtolower($full name));
echo $full name; // prints "Violet Elizabeth Bott"
?>
           NOTICE TO THE REPORT OF THE PROPERTY OF THE PR
<?php
$myString = "this is my string.";
$myString = ucfirst($myString);
echo $myString; // prints "This is my string."
```

?>

O"MyPass"OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO		
10.2 F DD		
10.3.5		
Web		
<pre><?php \$string = "one line\n"; \$string .= "another line\n"; \$string .= "a third for luck\n"; echo nl2br(\$string); ?></pre>		
<pre>one line another line a third for luck </pre>		
nl2br()		
<pre><?php \$string = "Given a long line, wordwrap() is useful as a means of "; \$string .= "breaking it into a column and thereby making it easier to read"; echo wordwrap(\$string); ?></pre>		

Given a long line, wordwrap() is useful as a means of breaking it into a column and thereby making it easier to read echo wordwrap(\$string, 24, "
\n"); Given a long line,
 wordwrap() is useful as
> a means of breaking it
 into a column and
 thereby making it easier
 to read ||חחחחחחחשordwrap| wordwrap() <?php \$string = "As usual you will find me at http://www.witteringonaboutit.com/"; \$string .= "chat/eating green cheese/forum.php. Hope to see you there!"; echo wordwrap(\$string, 24, "
\n", 1); ?> As usual you will find

As usual you will find

me at

http://www.witteringonab

outit.com/chat/eating_gr

een_cheese/forum.php.

Hope to see you there!



```
As usual you will find<br/>
me at<br/>
http://www.witteringonaboutit.com/chat/eating_green_cheese/forum.php. <br/>
Hope to see you there!
```

echo \$date_array[0]."-".\$date_array[1]."-".\$date_array[2];

10.4.1 |||time()|||||

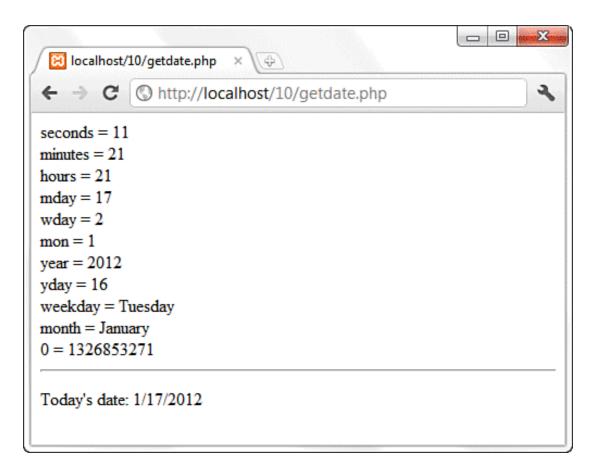
// \$date_array[2] == "19"

//prints 2012-02-19

?>

PHP[]time()[][][][][][][][][][][][][][][][][][][]			
echo time(); // sample output: 1326853185 // this represents January 17, 2012 at 09:19PM			
time()GMT 1970_1_1			
UNIXDDDDUNIX EpochDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD			
PHP00000000000000000000000000000000000			
10.4.2 getdate()			
getdate()			
getdate()			
time()10-3getdate()			
10-3 getdate()			

seconds	000000000000000000000000000000000000000	53
minutes	000000000000000000000000000000000000000	44
hours	0_0_000230	17
mday		3
wday		0
mon		2
year	0004000	2008
yday	0_0_0_0_365 <u></u>	33
weekday		Sunday
month		February
0		1092065443



 $\square 10-5$ $\square \square getdate()$

____10.4 ___getdate()_____

Warning: getdate(): It is not safe to rely on the system's timezone settings. You are *required* to use the date.timezone setting or the date default timezone set() function. ; Defines the default timezone used by the date functions ; http://php.net/date.timezone ;date.timezone = ; Defines the default timezone used by the date functions ; http://php.net/date.timezone date.timezone = America/New_York ∏∏∏php.ini∏∏∏∏∏∏∏∏Apache∏ 10.4.3 nnnnnnndate()nnnnnnnnnnnnnnnnnnnnnnnndate()n nnnnnnnndate()nnnnnnnn **□10-4** П П П

а	am[]pm[][][am
Α	AM_PM	АМ
d		28
D	0003000	Tue
E		America/Los_Angeles
F		February
h	000120000-000000	06
Н	000240000—0000000	06
G		6
G	000240000—00000000	6
i		45
j	000000000000000000000000000000000000000	28

I		Tuesday
L		0
m	0000000000000000	02
М	00000030000	Feb
N		2
S		26
S		th
r		Tue, 28 Feb 2006 06:45:26 -0800
U		1141137926
у		06
Υ		2006

z	(0 <u>_</u> 365)	28
Z	_GMT	-28800

```
1: <?php
2: $time = time(); //stores the exact timestamp to use in this script
3: echo date("m/d/y G:i:s e", $time);
4: echo "<br/>";
5: echo "Today is ";
6: echo date("jS \of F Y, \a\\t g:ia \i\\n e", $time);
7: ?>
```

01/17/12 21:29:31 America/New_York
Today is 17th of January 2012, at 9:29pm in America/New_York

<pre><?php echo date('l \t\h\e jS'); //prints Tuesday the 3rd ?></pre>
date()date()GMT gmdate()date()
10.4.4 mktime()
 □□ □□ □
 □□ □□ □□

```
1: <?php
2: // make a timestamp for Jan 17 2012 at 9:34 pm
3: $ts = mktime(21, 34, 0, 1, 17, 2012);
4: echo date("m/d/y G:i:s e", $ts);
5: echo "<br/>
5: echo "The date is ";
7: echo date("jS \of F Y, \a\\t g:ia \i\\n e", $ts );
8: ?>

\[ \text{Ondate()} \text{Ondate()} \text{Ondoth} \text{Ondot
```

```
01/17/12 21:34:00 America/New_York
The date is 17th of January 2012, at 9:34pm in America/New_York
```


checkdate(4, 4, 1066)

00000000000000000000000000000000000000			
10.5			
PHP00000000000000000000000PHP0000000000			
 Strings[http://www.php.net/manual/en/ref.strings.php Date/Time[] http://www.php.net/manual/en/ref.datetime.php 			
000000PHP00000000000000000000000000000			
10.6			

000000000PHP000000000000time()000000000000000000000000000000000000
10.7
10.8 Q&A
Q 0000000000000
A 000000000000000000000000000000000000
Q0000000000000000000000000000000000000
A00001600000MySQL000000000000000000000000000000000000

```
33
7nnnPHPnnnnnnnnnnnnnnnnnnuNIXnnnn
100000PHP0000000000000
ПΠ
printf("%f", 33);
printf("%04f", 33);
```

300000000(.)0000000000000000000000000000
printf("%04.2f", 33);
4 substr()
5_ltrim()
6 explode()
7time()
8 getdate()
9date()_
10checkdate()
1E-mailE-mail
20000000000000000000000000000000000000
30000000000000000000000000000000000000

 000000000000000000000000000000000000

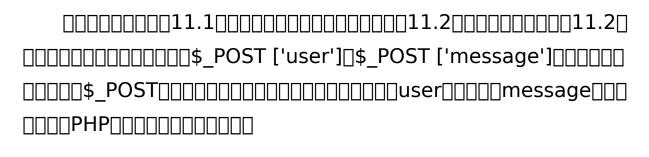
11.1

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>A simple HTML form</title>
5: </head>
6: <body>
7: <form method="post" action="send_simpleform.php">
8: <label for="user">Name:</label><br/>
9: <input type="text" id="user" name="user">
10: <label for="message">Message:</label><br/>
11: <textarea id="message" name="message" rows="5" cols="40"></textarea>
12: <button type="submit" name="submit" value="send">Send Message</button>
13: </form>
14: </body>
15: </html>
   _____ simpleform.html ______ Web_
11_____message"_____12_____FORM___
ACTION
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>A simple response</title>
5: </head>
6: <body>
7: Welcome, <strong><?php echo $_POST['user']; ?></strong>!
8: Your message is:
9: <strong><?php echo $_POST['message']; ?></strong>
10: </body>
11: </html>
```

Web____(simpleform.html)_____



 \square 11-1 simpleform.html \square \square \square \square

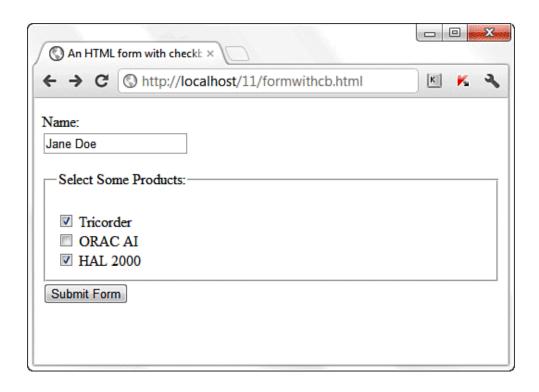


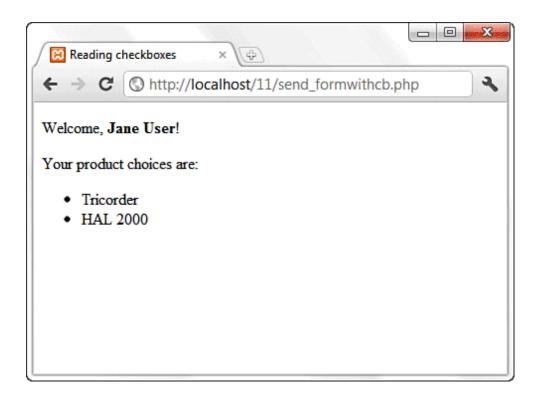
<input type="checkbox" id="products" name="products">

000011.3 0000SELECT000HTML00

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>An HTML form with checkboxes</title>
5: </head>
6: <body>
7: <form action="send_formwithcb.php" method="POST">
8: <label>Name:</label><br/>
9: <input type="text" name="user" />
10: <fieldset>
11: <legend>Select Some Products:</legend><br/>
12: <input type="checkbox" id="tricorder"</pre>
           name="products[]" value="Tricorder">
           <label for="tricorder">Tricorder</label><br/>
14:
15:
16: <input type="checkbox" id="ORAC_AI"
           name="products[]" value="ORAC AI">
17:
18:
           <label for="ORAC AI">ORAC AI</label><br/>>
19:
20: <input type="checkbox" id="HAL 2000"
           name="products[]" value="HAL 2000">
21:
22:
           <label for="HAL_2000">HAL 2000</label>
23: </fieldset>
24: <button type="submit" name="submit" value="submit">Submit Form</button>
25: </form>
26: </body>
27: </html>
```

```
1: <!DOCTYPE html>
2: <html>
3: <head>
   <title>Reading checkboxes</title>
   </head>
6: <body>
7: Welcome, <strong><?php echo $_POST['user']; ?></strong>!
8: Your product choices are:
9: <?php
10: if (!empty($ POST['products'])) {
      echo "";
11:
12:
      foreach ($_POST['products'] as $value) {
13:
         echo "$value";
14:
      }
15:
      echo "";
16: } else {
      echo "None";
17:
18: }
19: ?>
20: </body>
21: </html>
```





□11-3 send_formwithselect.php□□□□□

00000000000000000PHP000000HTML00000000
DHTML

```
1: <!DOCTYPE html>
```

^{2: &}lt;html>

^{3: &}lt;head>

^{4: &}lt;title>An HTML form that calls itself</title>

^{5: &}lt;/head>

^{6: &}lt;body>

^{7: &}lt;form action="<?php echo \$_SERVER['PHP_SELF']; ?>" method="POST">

^{8: &}lt;label for="guess">Type your guess here:</label>

^{9: &}lt;input type="text" id="guess" name="guess" />

^{10: &}lt;button type="submit" name="submit" value="submit">Submit</button>

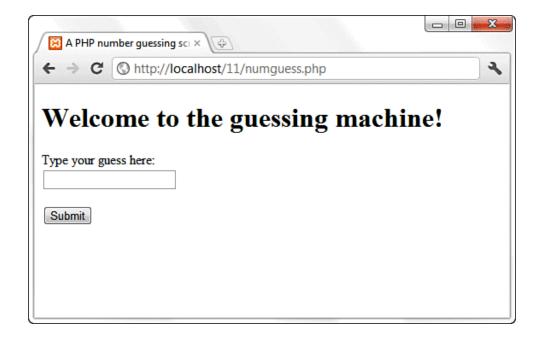
^{11: &}lt;/form>

^{12: &}lt;/body>

^{13: &}lt;/html>

```
<?php
    num_to_guess = 42;
   if (!isset($_POST['guess'])) {
     $message = "Welcome to the guessing machine!";
5: } elseif (!is_numeric($_POST['guess'])) { // is not numeric
       $message = "I don't understand that response.";
7: } elseif ($_POST['guess'] == $num_to_guess) { // matches!
       $message = "Well done!";
9: } elseif ($_POST['guess'] > $num_to_guess) {
10: $message = $_POST['guess']." is too big! Try a smaller number.";
11: } elseif ($_POST['guess'] < $num_to_guess) {</pre>
       $message = $_POST['guess']." is too small! Try a larger number.";
13: } else { // some other condition
      $message = "I am terribly confused.";
14:
15: }
16: ?>
```

```
17: <!DOCTYPE html>
18: <html>
19: <head>
20: <title>A PHP number guessing script</title>
21: </head>
22: <body>
23: <h1><?php echo $message; ?></h1>
24: <form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="POST">
25: <label for="guess">Type your guess here:</label><br/>
26: <input type="text" is="guess" name="guess" />
27: <button type="submit" name="submit" value="submit">Submit</button>
28: </form>
29: </body>
30: </html>
```





```
<?php
   num_to_guess = 42;
4: if (!isset($ POST['guess'])) {
     $message = "Welcome to the guessing machine!";
   } elseif (!is_numeric(post['guess'])) { // is not numeric
6:
7:
      $message = "I don't understand that response.";
   } elseif ($_POST['guess'] == $num_to_guess) { // matches!
      $message = "Well done!";
10: } elseif ($_POST['guess'] > $num_to_guess) {
     $message = $_POST['guess']." is too big! Try a smaller number.";
12: } elseif ($_POST['guess'] < $num_to_guess) {</pre>
      $message = $_POST['guess']." is too small! Try a larger number.";
14: } else { // some other condition
15:
      $message = "I am terribly confused.";
16: }
17: ?>
18: <!DOCTYPE html>
19: <html>
20: <head>
21: <title>A PHP number guessing script</title>
22: </head>
23: <body>
24: <h1><?php echo $message; ?></h1>
25: <strong>Guess number:</strong> <?php echo $num_tries; ?>
26: <form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="POST">
27: <label for="guess">Type your guess here:</label><br/>
28: <input type="text" id="guess" name="guess" />
29: <input type="hidden" name="num_tries" value="<?php echo $num_tries; ?>"/>
30: <button type="submit" name="submit" value="submit">Submit</button>
31: </form>
32: </body>
33: </html>
```

_____numguess2.php_____Web______1

11.5 DODD

00011.900PHP0000000000030000001000000
00011.9 000PHP0000000000
1: HTTP/1.1 200 OK 2: Date: Sun, 29 Jan 2012 15:50:28 PST 3: Server: Apache/2.2.21 (Win32) PHP/5.4.0 4: X-Powered-By: PHP/5.4.0 5: Connection: close 6: Content-Type: text/html
LocationPHP
header("Location: http://www.samspublishing.com");
11.10header()

```
<?php
   num_to_guess = 42;
3: $num_tries = (isset($_POST['num_tries'])) ? $num_tries + 1 : 1;
4: if (!isset($_POST['guess'])) {
     $message = "Welcome to the guessing machine!";
   } elseif (!is_numeric($_POST['guess'])) { // is not numeric
6:
7:
       $message = "I don't understand that response.";
   } elseif ($ POST['guess'] == $num to guess) { // matches!
       header("Location: congrats.html");
10:
       exit:
11: } elseif ($_POST['guess'] > $num_to_guess) {
     $message = $_POST['guess']." is too big! Try a smaller number.";
13: } elseif ($_POST['guess'] < $num_to_guess) {</pre>
       $message = $_POST['guess']." is too small! Try a larger number.";
14:
15: } else { // some other condition
       $message = "I am terribly confused.";
17: }
18: ?>
19:
20: <!DOCTYPE html>
21: <html>
22: <head>
23: <title>A PHP number guessing script</title>
24: </head>
25: <body>
26: <h1><?php echo $message; ?></h1>
27: <strong>Guess number:</strong> <?php echo $num_tries; ?>
28: <form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="POST">
29: <label for="guess">Type your guess here:</label><br/>
30: <input type="text" id="guess" name="guess" />
31: <input type="hidden" name="num_tries" value="<?php echo $num_tries; ?>"/>
32: <button type="submit" name="submit" value="submit">Submit</button>
33: </form>
34: </body>
35: </html>
```

1	1.	6		П		П	П	П	
							_		

11.6.1 mail()

[mail function] ; For Win32 only. ; http://php.net/smtp SMTP = localhost ; http://php.net/smtp-port smtp port = 25; For Win32 only. ; http://php.net/sendmail-from ;sendmail_from = me@example.com ; For Unix only. You may supply arguments as well (default: "sendmail -t -i"). ; http://php.net/sendmail-path ;sendmail path = SMTP = smtp.yourisp.net DDDDDDsendmail_fromDDDDDDDDFromDDDDE-mailDDDD sendmail from = youraddress@yourdomain.com

□□Web□□□□□□Linux/UNIX□□□□□□□□□□□□sendmail□□□□

□□□□□□□□□□□□□□□□□sendmail path□□□□□sendmail -t-i□□

11.6.2 □□□□□

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>E-Mail Form</title>
5: </head>
6: <body>
7: <form action="sendmail.php" method="POST">
8: <label for="name">Name:</label><br/>
9: <input type="text" size="25" id="name" name="name"/>
10: <label for="email">E-Mail Address:</label><br/>
11: <input type="text" size="25" id="email" name="email"/>
12: <label for="msg">Message:</label><br/>
13: <textarea id="msg" name="msg" cols="30" rows="5"></textarea>
14: <button type="submit" name="submit" value="send">Send Message</button>
15: </form>
16: </body>
17: </html>
```

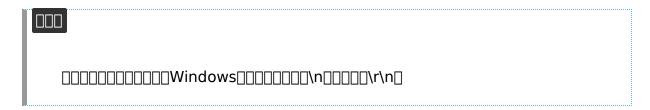
E-Mail Form	×	
← → C (S) http	://localhost/11/feedback.htm	ml 4
Name:		
E 36 7 A 11		
E-Mail Address:		
Message:		
	h	
Send Message		

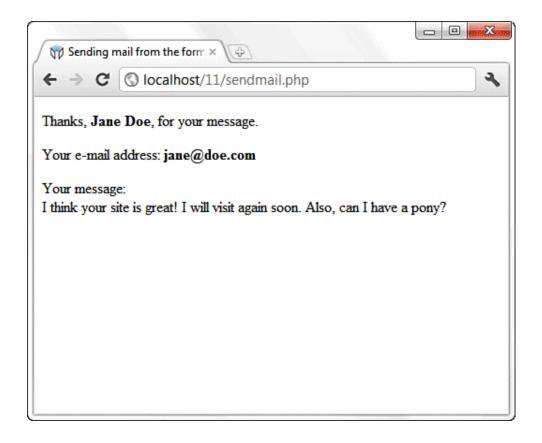
[] 11-5 | [] [] [] 11.11 [] [] [] []

11.6.3

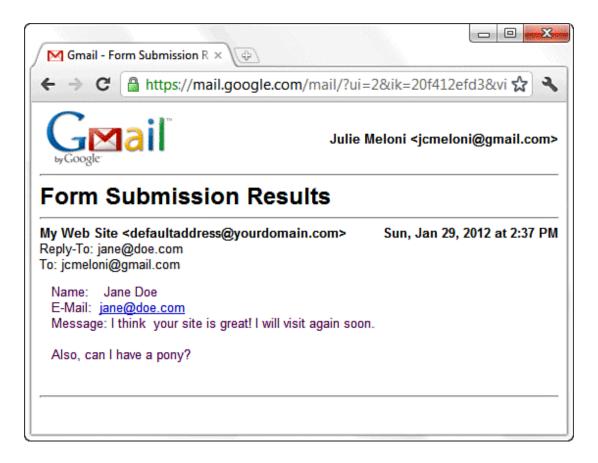
000011.12 00000000

```
1: <?php
2: //start building the mail string
3: $msg = "Name:
                    ".$_POST['name']."\n";
4: $msg .= "E-Mail: ".$_POST['email']."\n";
5: $msg .= "Message: ".$_POST['message']."\n";
7: //set up the mail
8: $recipient = "you@yourdomain.com";
9: $subject = "Form Submission Results";
10: $mailheaders = "From: My Web Site <defaultaddress@yourdomain.com> \n";
11: $mailheaders .= "Reply-To: ".$_POST['email'];
12:
13: //send the mail
14: mail($recipient, $subject, $msg, $mailheaders);
16: <!DOCTYPE html>
17: <html>
18: <head>
19: <title>Sending mail from the form in Listing 11.10</title>
20: </head>
21: <body>
22: Thanks, <strong><?php echo $_POST['name']; ?></strong>,
       for your message.
24: Your e-mail address:
25:
    <strong><?php echo $_POST['email']; ?></strong>
26: Your message: <br/> <?php echo $_POST['message']; ?> 
27: </body>
28: </html>
```





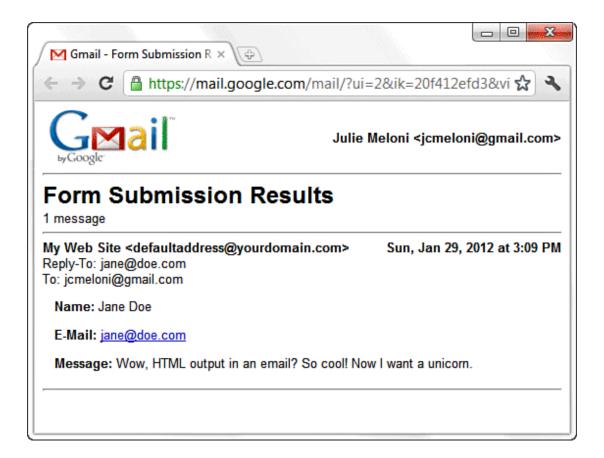
0000000E-mail



 \square 11-7 sendmail.php \square \square \square

__HTML______HTML_____ mail()_______11.12_______11.13____12_14____ 18_19_____

```
1: <?php
2: //start building the mail string
                                       ".$_POST['name']."";
3: $msg = "<strong>Name:</strong>
4: $msg .= "<strong>E-Mail:</strong> ".$ POST['email']."";
5: $msg .= "<strong>Message:</strong> ".$_POST['message']."";
7: //set up the mail
8: $recipient = "you@yourdomain.com";
9: $subject = "Form Submission Results";
10: mailheaders = "MIME-Version: 1.0\r\n";
11: $mailheaders .= "Content-type: text/html; charset=ISO-8859-1\r\n";
12: $mailheaders = "From: My Web Site <defaultaddress@yourdomain.com> \n";
13: $mailheaders .= "Reply-To: ".$_POST['email'];
14:
15: //send the mail
16: mail($recipient, $subject, $msg, $mailheaders);
17: ?>
18: <!DOCTYPE html>
19: <html>
20: <head>
21: <title>Sending the Simple Feedback Form - HTML Version</title>
22: </head>
23: <body>
24: Thanks, <strong><?php echo $_POST['name']; ?></strong>,
      for your message.
26: Your e-mail address:
27: <strong><?php echo $_POST['email']; ?></strong>
28: Your message: <br/> <?php echo $_POST['message']; ?> 
29: </body>
30: </html>
```



□11-8 □□□□11.13□□□E-mail

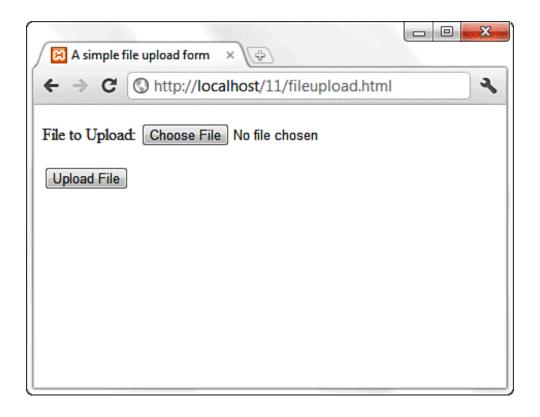
11.7 | | | | | | |

11-1 0000000

0 0		
\$_FILES["fileupload"]["name"]	00000000	test.gif
\$_FILES["fileupload"] ["tmp_name"]	000000	/tmp/phprDfZvN
\$_FILES["fileupload"]["size"]	0000000000	6835
<pre>\$_FILES["fileupload"]["type"]</pre>	00000 MIME 000000	image/gif

enctype="multipart/form-data"

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>A simple file upload form</title>
5: </head>
6: <body>
7: <form action="do_upload.php" enctype="multipart/form-data" method="POST">
8: <input type="hidden" name="MAX_FILE_SIZE" value="1048576" />
9: <label for="fileupload">File to Upload:</label>
10: <input type="file" id="fileupload" name="fileupload" />
11: <button type="submit" name="submit" value="send">Upload File</button>
12: </form>
13: </body>
14: </html>
```

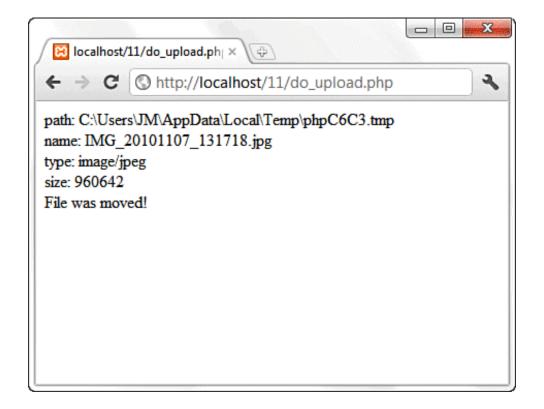


011-9 000011.1400000

____do_upload.php


```
1:
   <?php
2:
   $file dir = "/path/to/upload/directory";
4: foreach($ FILES as $file name => $file array) {
      echo "path: ".$file_array['tmp_name']."<br/>\n";
       echo "name: ".$file_array['name']."<br/>\n";
7:
      echo "type: ".$file array['type']."<br/>\n";
      echo "size: ".\file_array['size']."<br/>\n";
9:
10:
      if (is_uploaded_file($file_array['tmp_name'])) {
          move_uploaded_file($file_array['tmp_name'],
11:
12:
            "$file_dir/".$file_array['name'])
13:
             or die ("Couldn't move file");
14:
             echo "File was moved!";
15:
      } else {
          echo "No file found.";
16:
17:
18: }
19: ?>
```

[4] [] <t< th=""></t<>
00000000000020000000000000000000000000
Mac OS_Windows



[]11-10 []000011.14000000

11.8 []

11.9 Q&A

Q UUU_U_U_U_U_U_U_U_UUUUUUUUUU
AGoogleURL_
https://www.google.com/#hl=en&output=search&q=cheese
"cheese"
Q 000000000000000000000000000000000000
ADDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
11.10

- 20000000000000POST00000000000000 5[mail()]]]]]] 1000\$_SERVER['PHP_SELF']0000000 2 | \$_POST | | | | | | 3 | \$_FILES | | | | | 4 delineration del

60000000MAX_FILE_SIZE



12 Cookie Cookie

- 0000000000
- חחחחחחחחחחחח
- 00000000

12.1 Cookie □ □

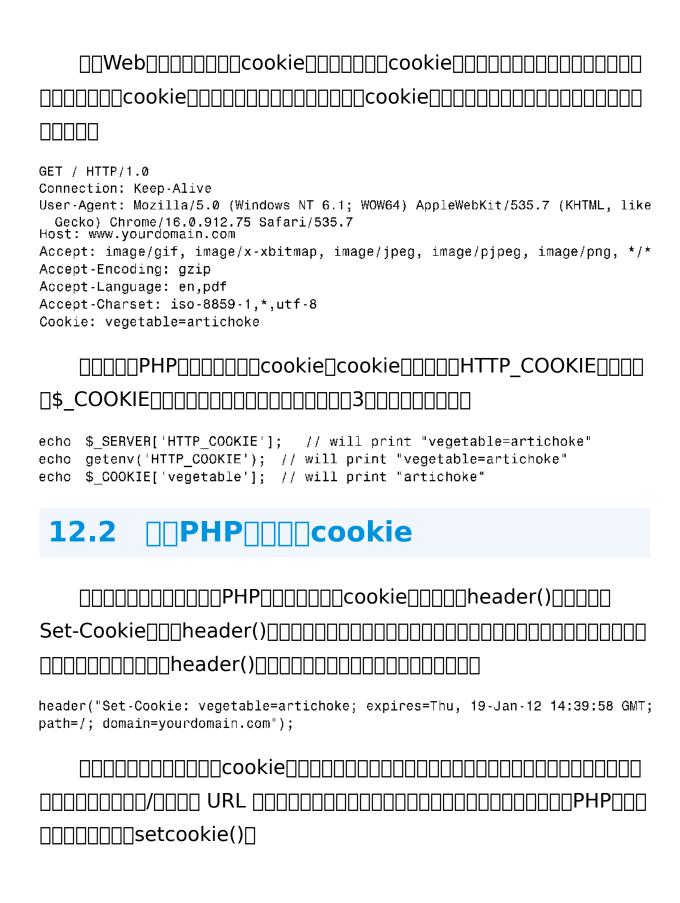
12.1.1 □□□□□cookie

____cookie_PHP______

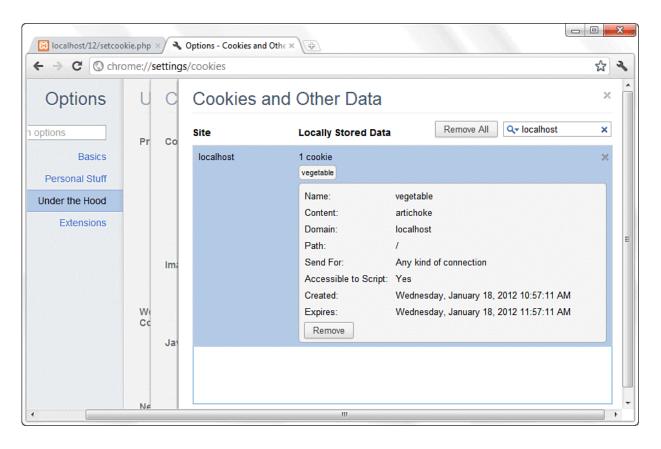
HTTP/1.1 200 OK
Date: Wed, 18 Jan 2012 10:50:58 GMT
Server: Apache/2.2.21 (Unix) PHP/5.4.0
X-Powered-By: PHP/5.4.0
Set-Cookie: vegetable=artichoke; path=/; domain=yourdomain.com
Connection: close

Content-Type: text/html

12.1.2 □□cookies



setcookie()
cookie
12.1 setcookie() cookie
12.1cookie_
1: php<br 2: setcookie("vegetable", "artichoke", time()+3600, "/", ".yourdomain.com", 0); 3:
4: if (isset(\$_COOKIE['vegetable'])) { 5: echo "Hello again! You have chosen: ".\$_COOKIE['vegetable']."."; 6: } else { 7: echo "Hello, you. This may be your first visit."; 8: } 9: ?>
'vegetable']cookie
2 cookie "vegetable" cookie
"artichoke"
3600 0000000000000000000000000000000000
domainyourdomain.com"
localhostcookie0
<pre> setcookie() cookies </pre>



□12-1 □□□ Web □□□□□□□□cookie

DDDDCookieDDDDDDsetcookie()DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
http://www.php. net/setcookie []PHP[][]
<pre>setcookie("vegetable");</pre>
cookie
setcookie("vegetable", "", time()-60, "/", ".yourdomain.com", 0);
12.3
00000000000000000000000000000000000000
session_set_save_handler()DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
session_set_save_handler()
12.4

php.ini
session.auto_start = 0
session_id()IDsession_id ()
1: php 2: session_start(); 3: echo "<p Your session ID is ".session_id()."."; 4: ?>
Your session ID is 8jou17in51d08e5onsjkbles16.
start_session()cookie

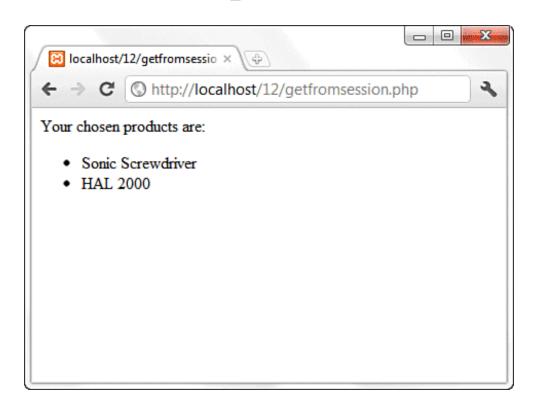
Webcookie

12.5 | | | | | | |

```
1: <?php
2: session_start();
3: $_SESSION['product1'] = "Sonic Screwdriver";
4: $_SESSION['product2'] = "HAL 2000";
5: echo "The products have been registered.";
6: ?>
```

0000000000000000012.300000000000012.4000 0000PHP00000000000\$_SESSION0000

```
1: <?php
2: session_start();
3: ?>
4: Your chosen products are:
5: 
6: <?php echo $_SESSION['product1']; ?>
7: <?php echo $_SESSION['product2']; ?>
8:
```



 Π 12-2 Π

00000000000000000000000000000000000000
session_save_path()
echo session_save_path();
/tmp/tmp

sess_fa963e3e49186764b0218e82d050de7b sess_76cae8ac1231b11afa2c69935c11dd95 sess_bb50771a769c605ab77424d59c784ea0

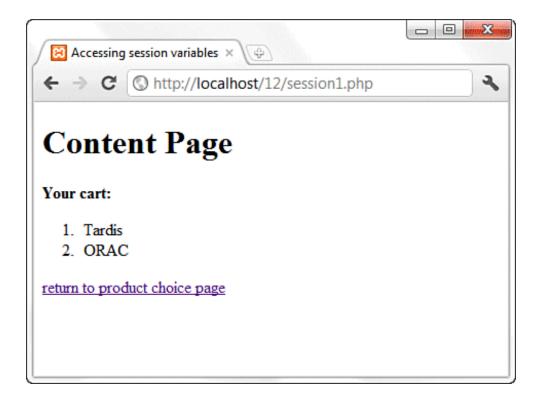
00000000 12.2 000000000 ID 0000000000000000000000000
<pre>product1 s:17:"Sonic Screwdriver";product2 s:8:"HAL 2000";</pre>
\$_\$ESSIONPHP\$_\$ESSION
12.3\$_\$_\$ESSION

```
1: <?php
 2: session_start();
 3: ?>
 4: <!DOCTYPE html>
 5: <html>
 6: <head>
 7: <title>Storing an array with a session</title>
 8: </head>
 9: <body>
10: <h1>Product Choice Page</h1>
11: <?php
12: if (isset($_POST['form_products'])) {
13:
        if (!empty($_SESSION['products'])) {
14:
            $products = array_unique(
15:
            array_merge(unserialize($_SESSION['products']),
16:
            $_POST['form_products']));
17:
            $_SESSION['products'] = serialize($products);
18:
19:
            $_SESSION['products'] = serialize($_POST['form_products']);
20:
21:
       echo "Your products have been registered!";
22: }
23: ?>
24: <form method="post" action="<?php echo $ SERVER['PHP SELF']; ?>">
25: <label for="form_products">Select some products:</label><br />
26: <select id="form_products" name="form_products[]" multiple="multiple"
    size="3">
27: <option value="Sonic Screwdriver">Sonic Screwdriver</option>
28: <option value="Hal 2000">Hal 2000</option>
29: <option value="Tardis">Tardis</option>
30: <option value="ORAC">ORAC</option>
31: <option value="Transporter bracelet">Transporter bracelet</option>
32: </select>
33: <button type="submit" name="submit" value="choose">Submit Form</button>
34: </form>
35: <a href="session1.php">go to content page</a>
36: </body>
37: </html>
```



35

```
1: <?php
 2: session_start();
 3: ?>
 4: <!DOCTYPE html>
 5: <html>
 6: <head>
 7: <title>Accessing session variables</title>
 8: </head>
 9: <body>
10: <h1>Content Page</h1>
11: <?php
12: if (isset($_SESSION['products'])) {
       echo "<strong>Your cart:</strong>";
14:
       foreach (unserialize($_SESSION['products]) as $p) {
15:
           echo "".$p.";
16:
       echo "";
17:
18: }
19: ?>
20: <a href="arraysession.php">return to product choice page</a> 21: </body>
22: </html>
```

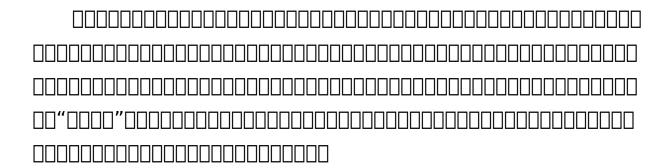


12.6 | | | | | | | |

session destroy() session_start(); \$ SESSION['test'] = 5; session_destroy(); echo \$ SESSION['test']; // prints 5 session_start(); \$_SESSION['test'] = 5; session_destroy(); unset(\$_SESSION['test']); echo \$ SESSION['test']; // prints nothing (or a notice about an undefined index)

12.7

12.7.1



12.7.2 | | | | | | |

12.8 □□

12.9 Q&A
Qcookie
A cookie
Q 000000000000000000000000000000000000
A
12.10

|--|--|

- חחחחחחחחחחחח
- 0000000000
- 000000000
- 00000000
- 000000
- 0000shell

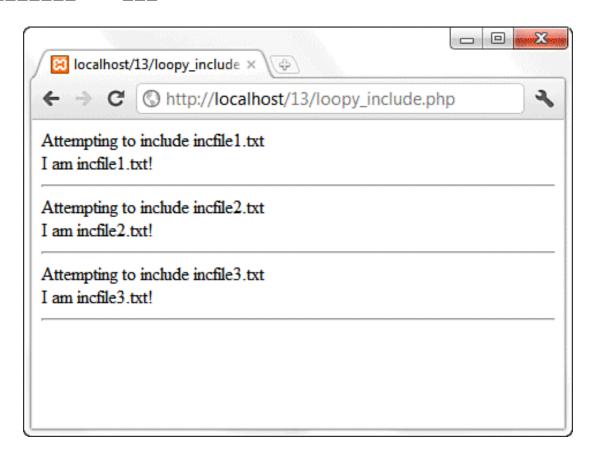
include
bug
myinclude.php
Include
□□□□13.1 □□include()
1: php 2: include 'myinclude.php'; 3: ?
1: I have been included!!
I have been included!!
PHPPHPPHPPHP

```
1: <?php
2: echo "I have been included!!<br/>";
3: echo "But now I can add up... 4 + 4 = ".(4 + 4);
4: ?>
  0000 13.3 0000000 myinclude2.php 0000000000
test_include.php
I have been included!!
But now I can add up... 4 + 4 = 8
  0000008000000404000000PHP0000000000
13.1.1
  ____13.4 __include___PHP____
1: <?php
2: $addResult = include 'returnvalue.php';
3: echo "The include file returned ".$addResult;
4: ?>
                            1: <?php
2: retval = (4 + 4);
3: return $retval;
```

5: This HTML will never be displayed because it comes after a return statement!

```
13.5 _______returnvalue.php_______Web____
The include file returned 8.
 13.1.2
    □□□□□□□□include□□
 nnnnnnnnnnnnnnincludennnnnnnnnnnnnnnnnnnnnn
test = "1";
if ($test == "2") {
 include 'file.txt'; // won't be included
}
 13.6
____13.6 _____include
1: <?php
```

```
1: <?php
2: for ($x = 1; $x<=3; $x++) {
3:    $incfile = "incfile".$x.".txt";
4:    echo "Attempting to include ".$incfile."<br/>";
5:    include $incfile;
6:    echo "<hr/>";
7: }
8: ?>
```



□13-1 loopy_include.php□□□

13.1.3 |||include_once|||

```
include_once______
___include_once_____
13.1.4 include path□□
 include_once '/home/user/bob/htdocs/project4/lib/mylib.inc.php';
 _____php.ini____include_path_
include path .:/home/user/bob/htdocs/project4/lib/
 include path
include path_____(.)_
include path∏∏∏∏∏∏
include_once 'mylib.inc.php';
```

13.2 □□□□□

13.2.1 [][file_exists()[][][][][][]

```
if (file_exists('test.txt')) {
        echo "The file exists!";
}
```

13.2.2 | | | | | | |

_____is_file()________is_file()____ ______is_file()_____

```
if (is_file('test.txt')) {
        echo "test.txt is a file!";
}
```

```
is dir()nnnnnnnnnnnnnnnnnnn
if (is_dir('/tmp')) {
   echo "/tmp is a directory";
}
  13.2.3
     is readable()
if (is_readable('test.txt')) {
   echo "test.txt is readable";
}
  is writable()______
if (is_writable('test.txt')) {
   echo "test.txt is writable";
}
  is executable()nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnn
if (is executable('test.txt')) {
   echo "test.txt is executable";
}
```

13.2.4 [[]filesize()[[][][][][]

13.2.5

```
$atime = fileatime("test.txt");
echo "test.txt was last accessed on ".date("D d M Y g:i A", $atime);
// Sample output: test.txt was last changed on Sat 26 Apr 2008 12:52 PM
```

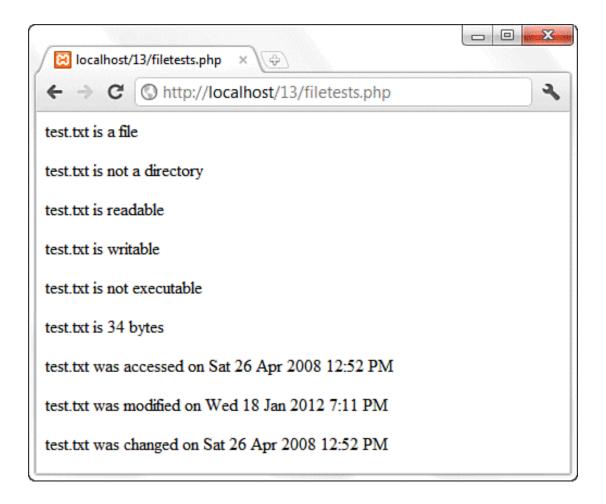
```
$mtime = filemtime("test.txt");
echo "test.txt was last modified on ".date("D d M Y g:i A", $mtime);
// Sample output: test.txt was last modified on Wed 18 Jan 2012 7:11 PM
```

```
mtime = filemtime("test.txt");
echo "test.txt was last modified on ".date("D d M Y g:i A", $mtime);
// Sample output: test.txt was last modified on Wed 18 Jan 2012 7:11 PM
```

13.2.6 חחחחחחחחחחחח

```
1: <?php
2: function outputFileTestInfo($f) {
3:
        if (!file exists($f)) {
           echo "$f does not exist";
4:
5:
           return:
6:
        echo "$f is ".(is_file($f) ? "" : "not ")."a file";
7:
        echo "$f is ".(is_dir($f) ? "" : "not ")."a directory";
8:
       echo "$f is ".(is_readable($f) ? "": "not ")."readable";
9:
       echo "$f is ".(is_writable($f) ? "": "not ")."writable";
10:
       echo "$f is ".(is executable($f) ? "": "not ")."executable";
11:
12:
       echo "$f is ".(filesize($f))." bytes";
       echo "$f was accessed on ".date( "D d M Y g:i A",fileatime($f))."";
13:
       echo "$f was modified on ".date( "D d M Y g:i A",filemtime(f))."";
14:
       echo "$f was changed on ".date( "D d M Y g:i A",filectime($f) )."";
15:
16: }
17: $file = "test.txt";
18: outputFileTestInfo($file);
19: ?>
```

_____ filetests.php ___ Web _____ Web ____ Web



 \square 13-2 filetests.php \square \square

```
echo "$f is ".(is_file($f) ? "" : "not ")."a file";
```

```
$is_it = is_file($f) ? "" : "not ";
echo "".$f." is ".$is_it." a file";
```

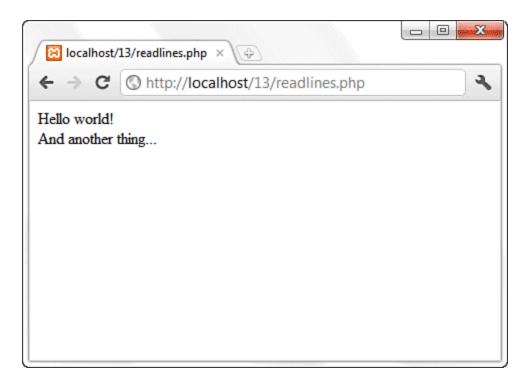
```
\Pi\Pi
if (is_file($f)) {
  echo "$f is a file";
} else {
  echo "$f is not a file";
}
 13.3 [[[[[[]]]]]]
 nnnnnnnnnnnnnntouch()nnnnnnnnnnnnnn
touch('myfile.txt');
 unlink('myfile.txt');
13.4
fopen()
```

```
fp = fopen("test.txt", "r");
  $fp = fopen("test.txt", "w");
  $fp = fopen("test.txt", "a");
  nnnnnnnnnnnnnnifnnnnnnnn
if ($fp = fopen("test.txt", "w")) {
 // do something with the $fp resource
}
  ($fp = fopen("test.txt", "w")) or die("Couldn't open file, sorry");
  nnnnnnnnnnnnnnnnnnnnnnnnnnnnnndie()nnn
fclose($fp);
  0000000000$fp00000000000
```

13.5 [[[[[]]]]

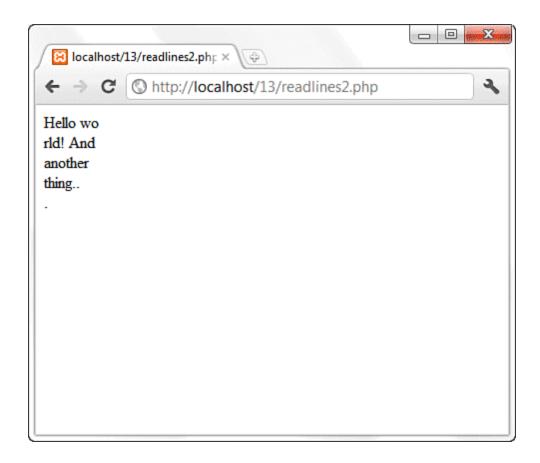

```
$line = fgets($fp, 1024); // where $fp is the file resource returned by fopen()
```

```
1: <?php
2: $filename = "test.txt";
3: $fp = fopen($filename, "r") or die("Couldn't open $filename");
4: while (!feof($fp)) {
5:    $line = fgets($fp, 1024);
6:    echo $line."<br/>";
7: }
8: ?>
```



 \square 13-3 readlines.php \square \square


```
chunk = fread(fp, 16);
```



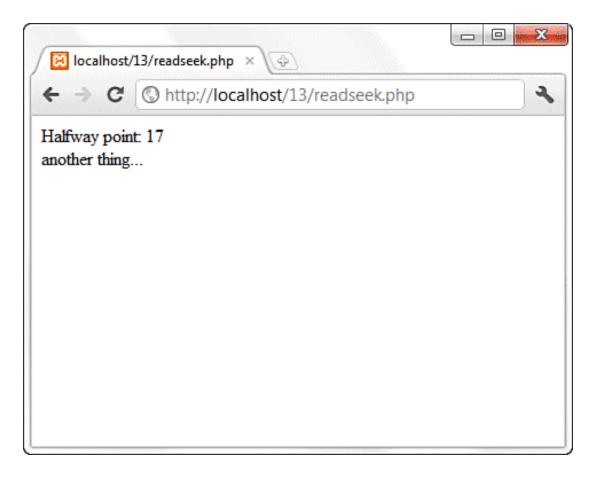
 \square 13-4 readlines2.php \square \square

□□□13.9 □□fread()□□□□

```
1: <?php
2: $filename = "test.txt";
3: $fp = fopen($filename, "r") or die("Couldn't open $filename");
4: while (!feof($fp)) {
5:     $chunk = fread($fp, 8);
6:     echo $chunk."<br/>";
7: }
8: ?>
```

fread()	10000000
fseek()00000000000000000000000000000000000	300000000
fseek(\$fp, 64);	
13.10 fseek() fread()	
	fseek()
1: php<br 2: \$filename = "test.txt";	

```
1: <?php
2: $filename = "test.txt";
3: $fp = fopen($filename, "r") or die("Couldn't open $filename");
4: $fsize = filesize($filename);
5: $halfway = (int)($fsize / 2);
6: echo "Halfway point: ".$halfway." <br/>'\n";
7: fseek($fp, $halfway);
8: $chunk = fread($fp, ($fsize - $halfway));
9: echo $chunk;
10: ?>
```



□13-5 readseek.php □□□

13.5.3 [][fgetc()[][][][]

```
1: <?php
2: $filename = "test.txt";
3: $fp = fopen($filename, "r") or die("Couldn't open $filename");
4: while (!feof($fp)) {
5:     $char = fgetc($fp);
6:     echo $char."<br/>";
7: }
8: ?>
```

```
23

⋈ localhost/13/readchars.php × \ ♦

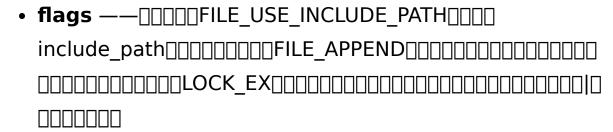
    → C  http://localhost/13/readchars.php
                                                                  2
Η
e
1
0
w
0
1
đ
!
Α
n
đ
a
n
0
t
h
е
r
```

13.5.4 [file_get_contents()]]]]]]

<pre>\$contents = file_get_contents("test.txt");</pre>
<pre>file_get_contents (\$filename [\$use_include_path [, \$context [, \$offset [, \$maxlen]]]]);</pre>
 use_include_path ——
- offset ——
13.6

<pre>\$fp = fopen("test.txt", "w");</pre>
fopen()"a"
<pre>\$fp = fopen("test.txt", "a");</pre>
13.6.1 fwrite() fputs()
fwrite()fputs()
<pre>fwrite(\$fp, "hello world"); fputs(\$fp, "hello world");</pre>
13.12fwrite()fputs()

```
1: <?php
   2: $filename = "test.txt";
   3: echo "Writing to ".$filename." ... ";
   4: $fp = fopen($filename, "w") or die("Couldn't open $filename");
   5: fwrite($fp, "Hello world\n");
   6: fclose($fp);
   7: echo "Appending to ".$filename." ...";
   8: $fp = fopen($filename, "a") or die("Couldn't open $filename");
   9: fputs(fp, "And another thing\n");
 10: fclose($fp);
 11: ?>
              nnnnWebnnnnnnnnnnnnnnn
Writing to test.txt ...
Appending to test.txt ...
              ____test.txt____readlines.php_______
\Box\Box\Box
Hello world
And another thing
                                    [] file_put_contents()[][][]
 13.6.2
              \cite{the contents} \cit
______file put contents()______
fopen() [fwrite() [fclose() [] [] [] [] [] []
              _____file put contents()______
file put contents ($filename, $data [, $flags [, $context]]);
              • data ——_______
```



context ——stream_context_create()DDDNULL

000013.13 000000000

```
1: <?php
2: $filename = "test.txt";
3: echo "<p>Writing to ".$filename." ... ";
4: file_put_contents ($filename, "Hello world\n");
5: echo "Appending to ".$filename." ...";
6: file_put_contents ($filename, "And another thing\n", FILE_APPEND);
7: ?>
```

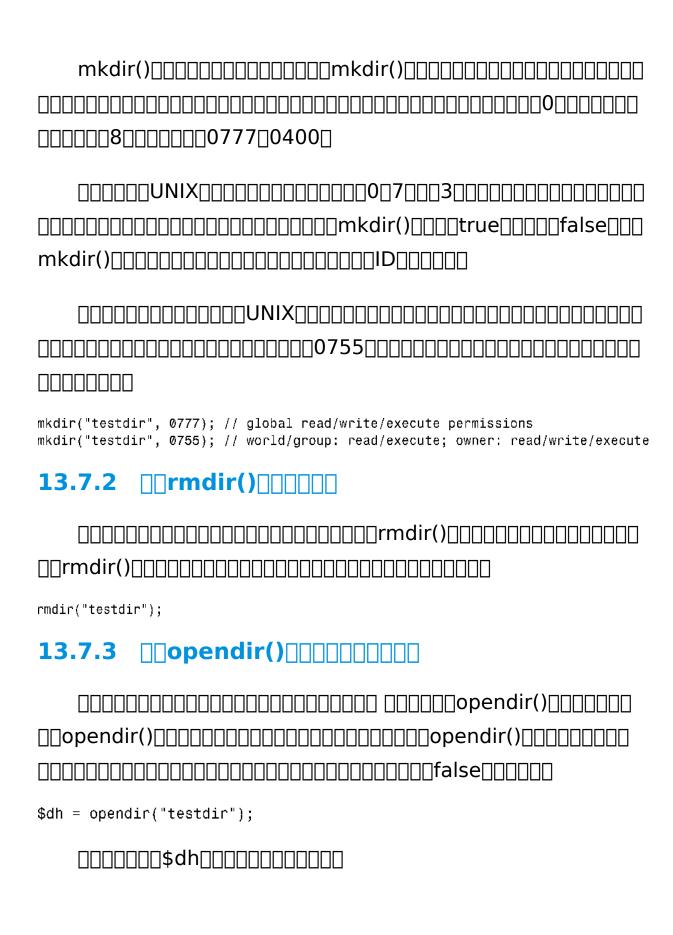
13.6.3 □□flock()□□□□

LOCK_SH	1	
LOCK_EX	2	
LOCK_UN	3	

```
$fp = fopen("test.txt", "a") or die("Couldn't open file.");
flock($fp, LOCK_EX); // create exclusive lock
// write to the file
flock($fp, LOCK_UN); // release the lock
fclose($fp);
```

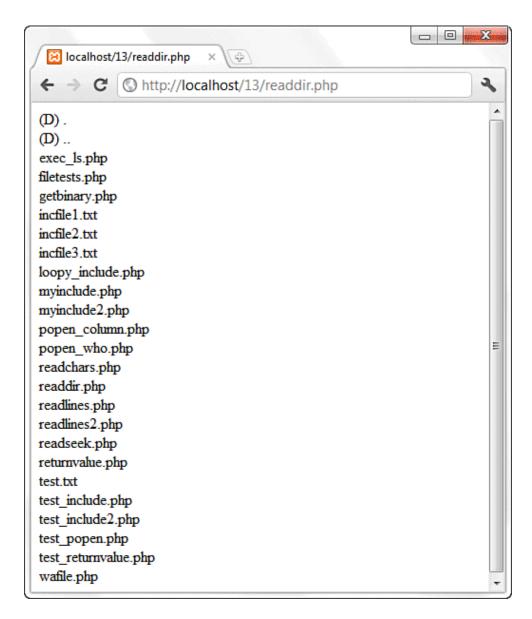
13.7 | | | | | |

13.7.1 || mkdir() || || ||



____13.14 ___readdir()_______

```
1: <?php
2: $dirname = ".";
3 : $dh = opendir($dirname) or die("Couldn't open directory");
4:
5: while (!(($file = readdir($dh)) === false ) ) {
6:    if (is_dir("$dirname/$file")) {
7:        echo "(D) ";
8:    }
9:    echo $file."<br/>";
10: }
11: closedir($dh);
12: ?>
```



□13-7 readdir.php□□□

3opendir()55while(
readdir()while
\$file
while

13.14 while
<pre>while (\$file = readdir(\$dh)) { echo \$file." "; }</pre>
readdir()0"_0"true 00004001_2_300
·
13.8 popen()



```
1: <?php
2: $file_handle = popen("/path/to/fakefile 2>&1", "r");
3: $read = fread($file_handle, 2096);
4: echo $read;
5: pclose($file_handle);
6: ?>
```

The system cannot find the path specified.

____13.16___popen()_______U___UNIX_who

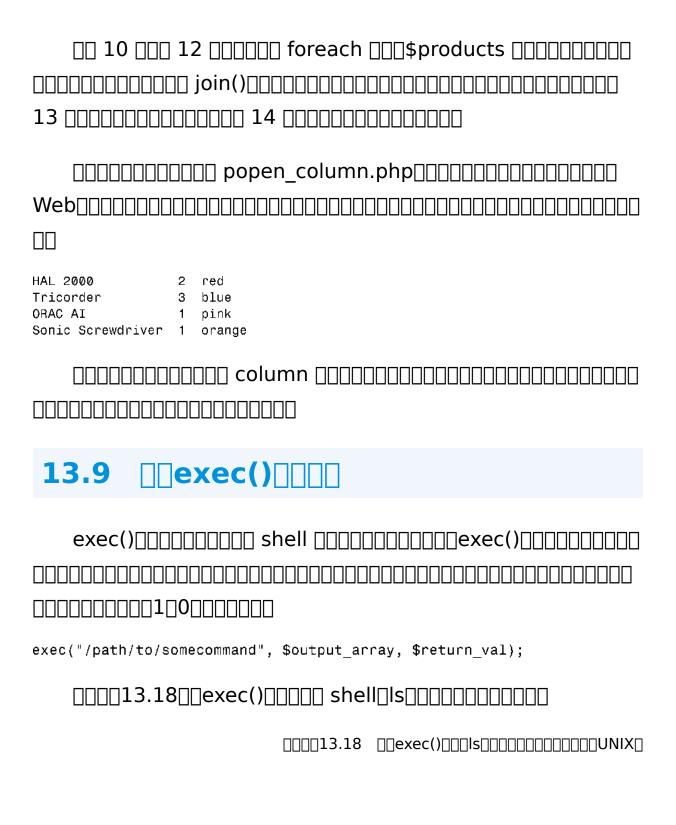
```
1: <?php
2: $handle = popen("who", "r");
3: while (!feof($handle)) {
4: $line = fgets($handle,1024);
5: if (strlen($line) >= 1) {
6: echo $line." < br/>";
7: }
8: }
9: pclose($handle);
10: ?>
```

____popen_who.php

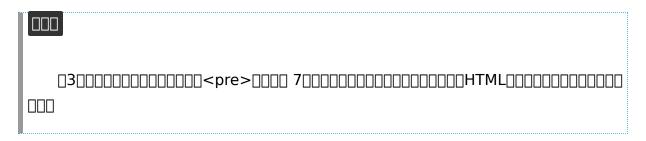
julie pts/0 Mar 14 06:19 (adsl-63-206-120-158.dsl.snfc21.pacbell.net)

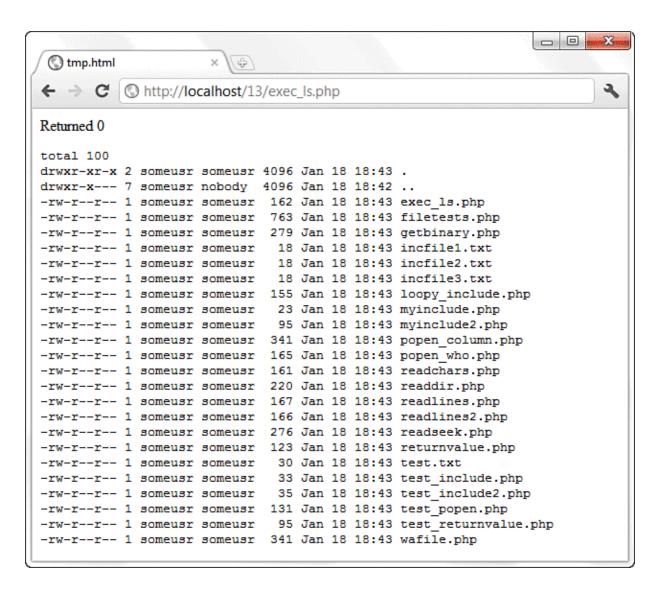
DDDD13.17 DDpopen()DDDDDDUNIX columnDDDDDDDUNIXD

```
1: <?php
    $products = array(
                array("HAL 2000", 2, "red"),
4:
                array("Tricorder", 3, "blue"),
                array("ORAC AI", 1, "pink"),
5:
6:
                array("Sonic Screwdriver", 1, "orange")
7:
               );
8:
9: $handle = popen("column -tc 3 -s / > /somepath/purchases.txt", "w");
10: foreach ($products as $p) {
11:
       fputs($handle, join('/',$p)."\n");
12: }
13: pclose($handle);
14: echo "done";
15: ?>
```



```
1: <?php
2: exec("ls -al .", $output_array, $return_val);
3: echo "Returned ".$return_val."<br/>";
4: foreach ($output_array as $o) {
5:    echo $o."\n";
6: }
7: echo "";
8: ?>
```



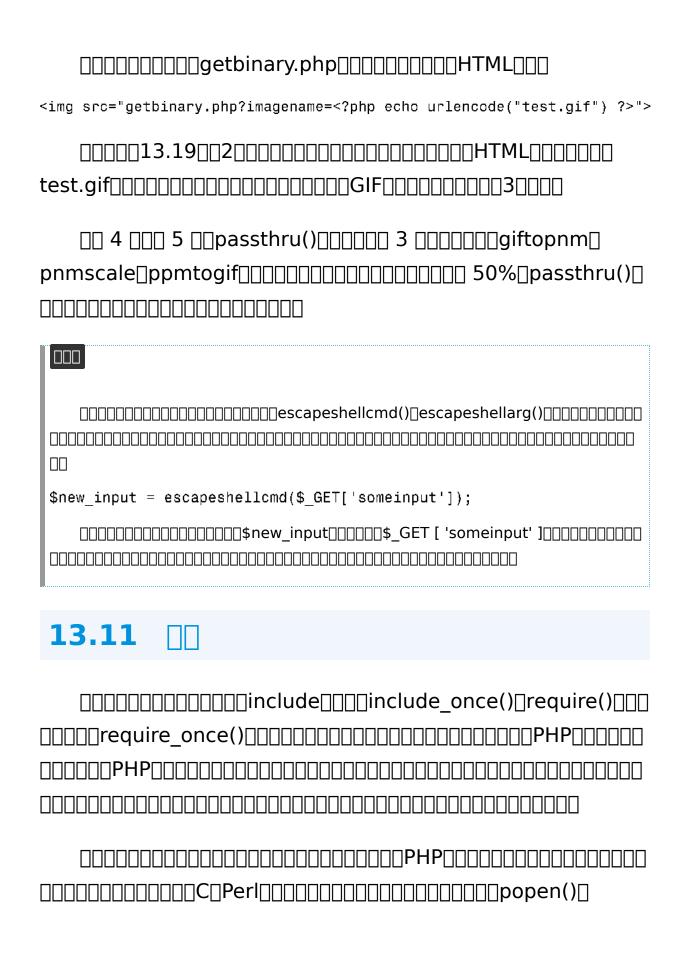


□13-8 exec ls.php□□□

```
system("/path/to/somecommand", $return_val);
  system() \square \square \square exec() \square \square \square \square \square \square \square \square \square
____system()_ man ____ man _____
<?php
echo "";
system("man man | col -b", $return val);
echo "";
?>
  nnnshellnnnnnnnnnnnnnnnnnnnnnnn
1: <?php
2: if ((isset($_GET['imagename'])) && (file_exists($_GET['imagename']))) {
```

```
1: <?php
2: if ((isset($_GET['imagename'])) && (file_exists($_GET['imagename']))) {
3:    header("Content-type: image/gif");
4:    passthru("giftopnm ".$_GET['imagename']." |
5:        pnmscale -xscale .5 -yscale .5 | ppmtogif");
6: } else {
7:    echo "The image ".$_GET['imagename']." could not be found";
8: }
9: ?>
```

_____shell___giftopnm_pnmscale_ppmtogif_______passthru()



exec() system() passthru() system()

13.12 Q&A

Q[include[][][][][]

Wide Web Security FAQ 13.13 70000000000000000000000

	110000000000000000000000000000000000000
	1200000000shell000000000000000000
]in	1require()_include()PHP clude_once()_require_once()_
	200000file_exists()00000000000000000000000000000000000
	3 filesize()
	4_fopen()
	5_fgets()
	6feof()feof()true
	7fputs()
	8_opendir()
	9[readdir()[[][][][][][][][][][][][][][][][][][][
	10 popen()

11feof()_fgets()fputs()
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1 000000000000000000000000000000000000
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14
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14.1
DRAW Windows Draw Draw Draw Draw Draw Draw Draw Draw
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14.2 [PHP]]]]]
PHPThomas Boutell_GD
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with-gd

000 GD 00000000000000000000000000000000
GIF
 JPEG
• DDDDDPNGDDDDDDZlibDDDDDhttp://www.zlib.net/
with-jpeg-dir=[path to jpeg directory]with-png-dir=[path to PNG directory]with-zlib=[path to zlib directory]
14.3
PHPPHPPHP

```
$myImage = ImageCreate(300,300);
             $black = ImageColorAllocate($myImage, 0, 0, 0);
$white = ImageColorAllocate($myImage, 255, 255, 255);
$red = ImageColorAllocate($myImage, 255, 0, 0);
$green = ImageColorAllocate($myImage, 0, 255, 0);
$blue = ImageColorAllocate($myImage, 0, 0, 255);
    $background_coloror
             ППWebППППП
14.3.1

    ImageEllipse()□□□□□□□□

       • ImageArc()
       • ImagePolygon()

    ImageRectangle()□□□□□□□□□

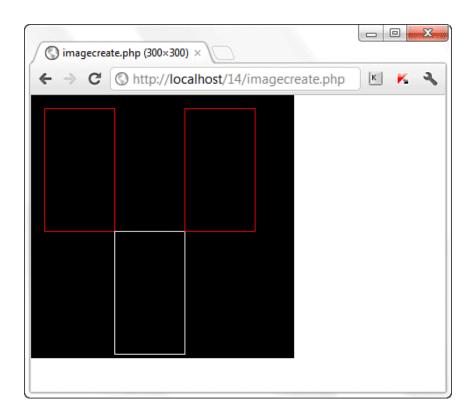
    ImageLine()□□□□□□□□□

             NONDO DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRETA DEL CONTRETA DE LA CONTRE
```

80 140(15,15)80 \$red
<pre>ImageRectangle(\$myImage, 15, 15, 95, 155, \$red);</pre>
<pre>ImageRectangle(\$myImage, 95, 155, 175, 295, \$white);</pre>
<pre>ImageRectangle(\$myImage, 175, 15, 255, 155, \$red);</pre>
14.1

```
<?php
    (/create the canyas
    $myImage = ImageCreate(300,300);
4:
5: //set up some colors for use on the canvas
6: $black = ImageColorAllocate($myImage, 0, 0, 0);
7: $white = ImageColorAllocate($myImage, 255, 255, 255);
8: $red = ImageColorAllocate($myImage, 255, 0, 0);
    $green = ImageColorAllocate($myImage, 0, 255, 0);
10: $blue = ImageColorAllocate($myImage, 0, 0, 255);
11:
12: //draw some rectangles
13: ImageRectangle($myImage, 15, 15, 95, 155, $red);
14: ImageRectangle($myImage, 95, 155, 175, 295, $white);
15: ImageRectangle($myImage, 175, 15, 255, 155, $red);
16:
17: //output the image to the browser
18: header ("Content-type: image/png");
19: ImagePng($myImage);
20:
21: //clean up after yourself
22: ImageDestroy($myImage);
23: ?>
```

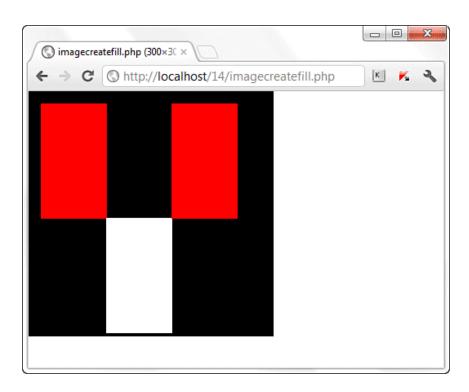




14.3.2

- ImageFilledEllipse()
- ImageFilledArc()
- ImageFilledPolygon()
- ImageFilledRectangle()

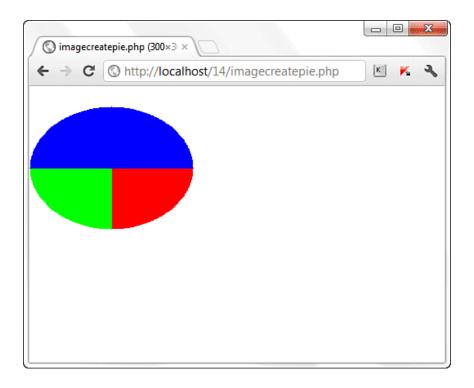
```
<?php
2:
   //create the canvas
   $myImage = ImageCreate(300,300);
4:
   //set up some colors for use on the canvas
6: $black = ImageColorAllocate($myImage, 0, 0, 0);
7: $white = ImageColorAllocate($myImage, 255, 255, 255);
8: $red = ImageColorAllocate($myImage, 255, 0, 0);
9: $green = ImageColorAllocate($myImage, 0, 255, 0);
10: $blue = ImageColorAllocate($myImage, 0, 0, 255);
11:
12: //draw some rectangles
13: ImageFilledRectangle($myImage, 15, 15, 95, 155, $red);
14: ImageFilledRectangle($myImage, 95, 155, 175, 295, $white);
15: ImageFilledRectangle($myImage, 175, 15, 255, 155, $red);
16:
17: //output the image to the browser
18: header ("Content-type: image/png");
19: ImagePng($myImage);
20:
21: //clean up after yourself
22: ImageDestroy($myImage);
23: ?>
```



14.4

```
1: <?php
2: //create the canvas
3: $myImage = ImageCreate(300,300);
4:
5: //set up some colors for use on the canvas
6: $white = ImageColorAllocate($myImage, 255, 255, 255);
7: $red = ImageColorAllocate($myImage, 255, 0, 0);
8: $green = ImageColorAllocate($myImage, 0, 255, 0);
9: $blue = ImageColorAllocate($myImage, 0, 0, 255);
10:
11: //draw a pie
12: ImageFilledArc($myImage, 100, 100, 200, 150, 0, 90, $red, IMG_ARC_PIE);
13: ImageFilledArc($myImage, 100, 100, 200, 150, 90, 180, $green,
       IMG_ARC_PIE);
14: ImageFilledArc($myImage, 100, 100, 200, 150, 180, 360, $blue,
      IMG_ARC_PIE);
15:
16: //output the image to the browser
17: header ("Content-type: image/png");
18: ImagePng($myImage);
19:
20: //clean up after yourself
21:
    ImageDestroy($myImage);
22:
```

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web
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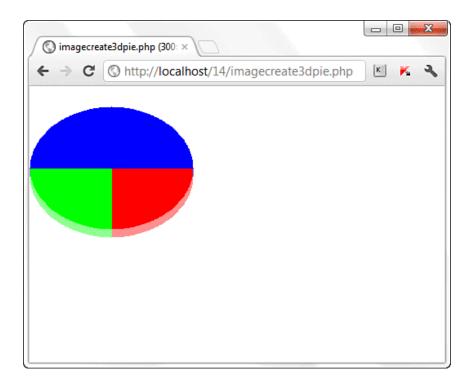
014-3 0000000000

```
__3D_____14.3____3D___3D___3D___3D___3D___3D___
____3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___3D___
```

```
$lt_red = ImageColorAllocate($myImage, 255, 150, 150);
$lt_green = ImageColorAllocate($myImage, 150, 255, 150);
$lt_blue = ImageColorAllocate($myImage, 150, 150, 255);
```

00014.40000003D00000

```
<?php
1:
2:
   //create the canvas
   $myImage = ImageCreate(300,300);
4:
   //set up some colors for use on the canvas
6: $white = ImageColorAllocate($myImage, 255, 255, 255);
7: $red = ImageColorAllocate($myImage, 255, 0, 0);
8: $green = ImageColorAllocate($myImage, 0, 255, 0);
9: $blue = ImageColorAllocate($myImage, 0, 0, 255);
10: $1t red = ImageColorAllocate($myImage, 255, 150, 150);
11: $lt_green = ImageColorAllocate($myImage, 150, 255, 150);
12: $lt_blue = ImageColorAllocate($myImage, 150, 150, 255);
13:
14: //draw the shaded area
15: for (\$i = 110;\$i > 100;\$i--) {
        ImageFilledArc ($myImage,100,$i,200,150,0,90,$lt_red,IMG_ARC_PIE);
16:
17:
        ImageFilledArc ($myImage,100,$i,200,150,90,180,$lt_green,IMG_ARC_PIE);
18:
        ImageFilledArc ($myImage,100,$i,200,150,180,360,$1t_blue,IMG_ARC_PIE);
19: }
20:
21: //draw a pie
22: ImageFilledArc($myImage, 100, 100, 200, 150, 0, 90, $red, IMG_ARC_PIE);
23: ImageFilledArc($myImage, 100, 100, 200, 150, 90, 180 , $green, IMG_ARC_PIE);
24: ImageFilledArc($myImage, 100, 100, 200, 150, 180, 360 , $blue, IMG_ARC_PIE);
25:
26: //output the image to the browser
27: header ("Content-type: image/png");
28: ImagePng($myImage);
29:
30: //clean up after yourself
31: ImageDestroy($myImage);
32: ?>
```



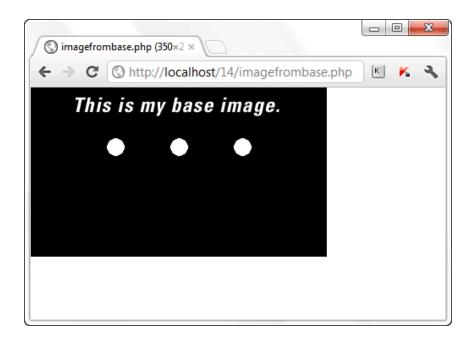
□14-4 □□□□□□□3D□□

14.5 | | | | | | |

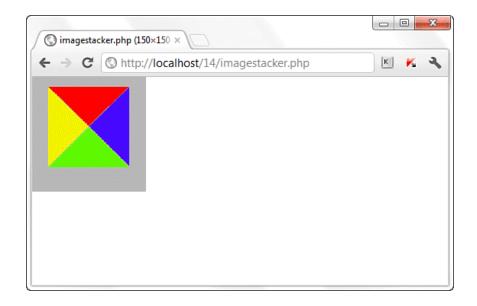


□14-5

```
1: <?php
   //use existing image as a canvas
   $myImage = ImageCreateFromPng("baseimage.png");
4:
   //allocate the color white
   $white = ImageColorAllocate($myImage, 255, 255, 255);
6:
7:
8:
    //draw on the new canvas
    ImageFilledEllipse($myImage, 100, 70, 20, 20, $white);
10: ImageFilledEllipse($myImage, 175, 70, 20, 20, $white);
11: ImageFilledEllipse($myImage, 250, 70, 20, 20, $white);
12:
13: //output the image to the browser
14: header ("Content-type: image/png");
15: ImagePng($myImage);
16:
17: //clean up after yourself
18: ImageDestroy($myImage);
19: ?>
```



```
<?php
    //select an image to start with
    $baseimage = ImageCreateFromPng("img1.png");
4:
   //loop through images #2 through the end
6:
   for($i=2; $i <5; $i++) {
7:
      //allocate the transparent color, and stack
8:
      $myImage = ImageCreateFromPng("img".$i.".png");
9:
      $gray = ImageColorAllocate($myImage, 185, 185, 185);
10:
      ImageColorTransparent($myImage, $gray);
11:
      ImageCopyMerge($baseimage,$myImage,0,0,0,0,150,150,100);
12: }
13:
14: //output the image to the browser
15: header ("Content-type: image/png");
16: ImagePng($baseimage);
17:
18: //clean up after yourself
19: ImageDestroy($baseimage);
20: ?>
```



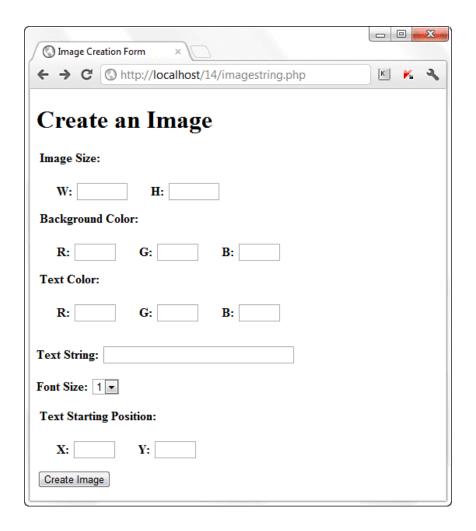
000014.7 0000000000

```
1: <?php
2: if (!$ POST) {
        //show form
4: ?>
5: <!DOCTYPE html>
6: <html>
7: <head>
8: <title>Image Creation Form</title>
10: <style type="text/css">
11: fieldset{border: 0; padding: 0px 0px 12px 0px;}
12: fieldset label {margin-left: 24px;}
13: legend, label {font-weight:bold;}
14: </style>
15:
16: </head>
17: <body>
18: <h1>Create an Image</h1>
19: <form method="POST" action="<?php echo $ SERVER['PHP_SELF']; ?>">
20:
21: <fieldset>
22: <legend>Image Size:</legend><br/>
23: <label for="w">W:</label>
24: <input type="text" id="w" name="w" size="5" maxlength="5" />
25: <label for="h">H:</label>
26: <input type="text" id="h" name="h" size="5" maxlength="5" />
27: </fieldset>
28:
29: <fieldset>
30: <legend>Background Color:</legend><br/>
31: <label for="b r">R:</label>
32: <input type="text" id="b r" name="b r" size="3" maxlength="3" />
33: <label for="b g">G:</label>
34: <input type="text" id="b_g" name="b_g" size="3" maxlength="3" />
35: <label for="b_b">B:</label>
36: <input type="text" id="b b" name="b b" size="3" maxlength="3" />
37: </fieldset>
38:
39: <fieldset>
40: <legend>Text Color:</legend><br/>
41: <label for="t_r">R:</label>
42: <input type="text" id="t_r" name="t_r" size="3" maxlength="3" />
43: <label for="t_g">G:</label>
44: <input type="text" id="t_g" name="t_g" size="3" maxlength="3" />
45: <label for="t_b">B:</label>
46: <input type="text" id="t_b" name="t_b" size="3" maxlength="3" />
47: </fieldset>
48:
49: <label for="string">Text String:</label>
50: <input type="text" id="string" name="string" size="35" />
52: <label for="font_size">Font Size:</label>
53: <select id="font_size" name="font_size">
54: <option value="1">1</option>
55: <option value="2">2</option>
56: <option value="3">3</option>
57: <option value="4">4</option>
```

```
58: <option value="5">5</option>
59: </select>
60:
61: <fieldset>
62: <legend>Text Starting Position:</legend><br/>
63: <label for="x">X:</label>
64: <input type="text" id="x" name="x" size="3" maxlength="3" />
65: <label for="y">Y:</label>
66: <input type="text" id="y" name="y" size="3" maxlength="3" />
67: </fieldset>
68:
69: <button type="submit" name="submit" value="create">Create Image</button>
70: </form>
71: </body>
72: </html>
  4nnPHPnnnnnnnnnnnnnnnnnnnnn $ POSTnnnnnnnnnn
HTML
```



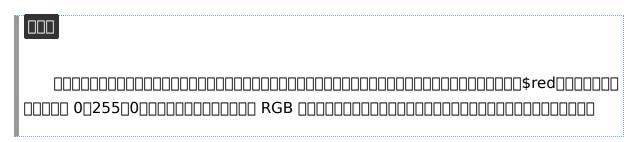
_____if...else___PHP______Web___



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14.7

```
73: <?php
74: } else {
75:
       //create image
76:
       //create the canvas
77:
       $myImage = ImageCreate($_POST['w'], $_POST['h']);
78:
79:
       //set up some colors
80:
       $background = ImageColorAllocate ($myImage, $_POST['b_r'],
81:
           $_POST['b_g'], $_POST['b_b']);
       $text = ImageColorAllocate ($myImage, $_POST['t_r'],
82:
83:
           $_POST['t_g'], $_POST['t_b']);
84:
85:
       // write the string at the top left
86:
       ImageString($myImage, $_POST['font_size'], $_POST['x'],
87:
           $_POST['y'], $_POST['string'], $text);
88:
89:
       //output the image to the browser
90:
       header ("Content-type: image/png");
91:
       ImagePNG($myImage);
92:
93:
       //clean up after yourself
94:
       ImageDestroy($myImage);
95: }
96: ?>
```





14.7 חחחחחחחח


```
1: <?php
2: //create the canvas
3: $myImage = ImageCreate(150,25);
5: //set up some colors for use on the canvas
6: $white = ImageColorAllocate($myImage, 255, 255, 255);
7: $black = ImageColorAllocate($myImage, 0, 0, 0);
9: //load a font
10: $font = imageloadfont("hootie.gdf");
12: // write the string
13: ImageString($myImage, $font, 0, 0, "CAPTCHA!", $black);
14:
15: //output the image to the browser
16: header ("Content-type: image/png");
17: ImagePng($myImage);
18:
19: //clean up after yourself
20: ImageDestroy($myImage);
21: ?>
```

imageloadfont()	
	imageloadfont()
	imagettftext()
\$font\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
ImagePng()	\$font\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
00000000000000000000000000000000000000	ImagePng()
"CAPTCHA!"	

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```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>Using Images Created by Scripts</title>
5: </head>
6: </body>
7: <h1>Generated Image Below...</h1>
8: <img src="imagecustomfont.php" alt="generated image" />
9: </body>
10: </html>
```

HTMLsrc _
14.8
useimage.htmlHTML_PHPWeb



14.8 |

14.9 Q&A

ImageFilledArc(\$myImage,50,50,100,50,0,90,\$red,IMG_ARC_PIE);

 $ImageFilledArc(\$myImage, 50, 50, 100, 50, 0, \$may_sales_pct, \$red, IMG_ARC_PIE);\\$

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1RGB
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300000000000000000000000000000000000000
10_0_0255_255_255_
200000000000000000000000000000000000000
<pre>\$new_image = ImageCreate(300,200);</pre>
3□ImagePolygon()□ImageFilledPolygon()□
10000000000000000000000000000000000000

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||4||| PHP||MySQL|||

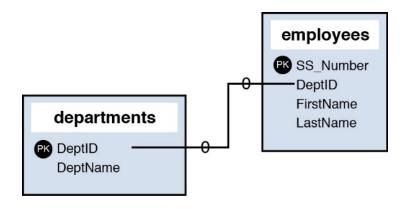
- **SQL SQL**
- **OMYSQL OMYSQL**

- 00000000

15.1 [[[[[[]]]]]]

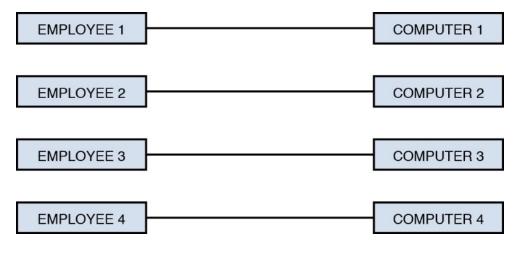


15.2 [[[[[[[]]]]]]]
• • • • • • • • • • • • • • • • • • •
• DDDDD
employees

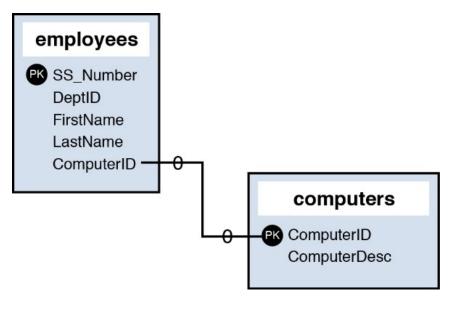


 $\Box 15-1$ employees $\Box \Box$ departments $\Box \Box \Box$ DeptID $\Box \Box \Box \Box$

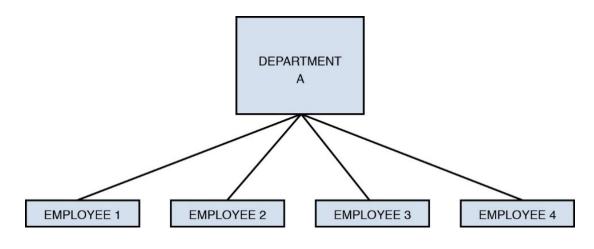
15.2.1 □□□□□□



015-2 00000000000

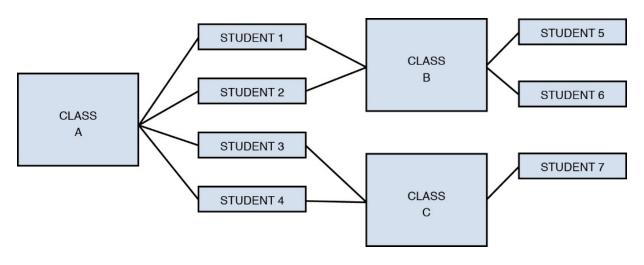


15.2.2 DDDD



[] 15-4

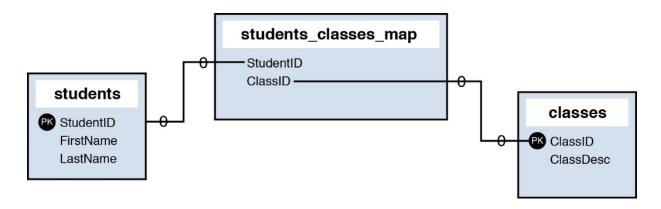
15.2.3 □□□□□□



015-5 000000000000



[] 15-6

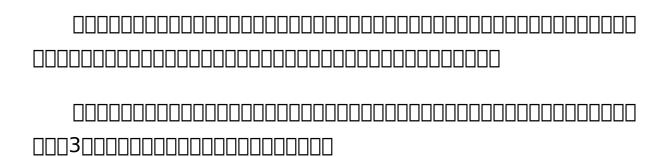


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STUDENTID	CLASSID
STUDENT 1	CLASS A
STUDENT 2	CLASS A
STUDENT 3	CLASS A
STUDENT 4	CLASS A
STUDENT 5	CLASS B
STUDENT 6	CLASS B
STUDENT 7	CLASS C
STUDENT 1	CLASS B
STUDENT 2	CLASS B
STUDENT 3	CLASS C
STUDENT 4	CLASS C

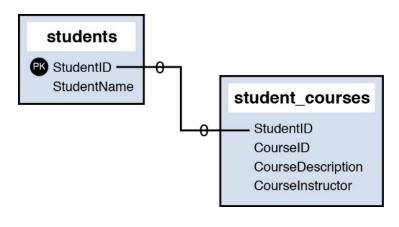
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	

15.3 [[[[[]]]]



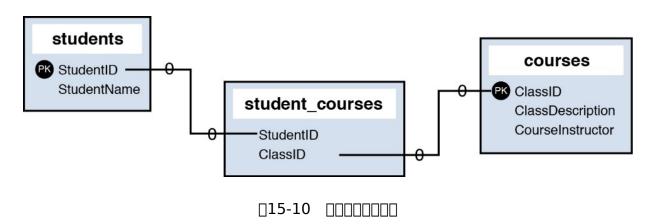
15.3.1
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• StudentName —— 🗆 🗆 🗆 🗆
• CourseID1 —— D D
• CourseDescription1 —— ODD ODD ODD ODD ODD ODD ODD ODD ODD
• CourseInstructor1 —— [] [] [] [] [] [] [] [] [] [] [] [] []
• CourseID2 ——IDID
• CourseDescription2 —— Output Output Description Output Desc
• CourseInstructor2 —— [] [] [] [] [] [] [] [] [] [] [] [] []
• DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
CourseInstructor
CourseID_
CourseDescription CourseInstructor CourseDescription
15.3.2 □□□□

- 0000000

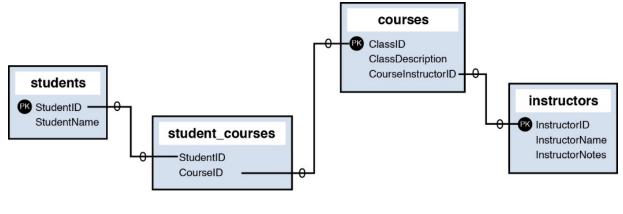


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15.3.3 DDDD



15.3.4 □□□□

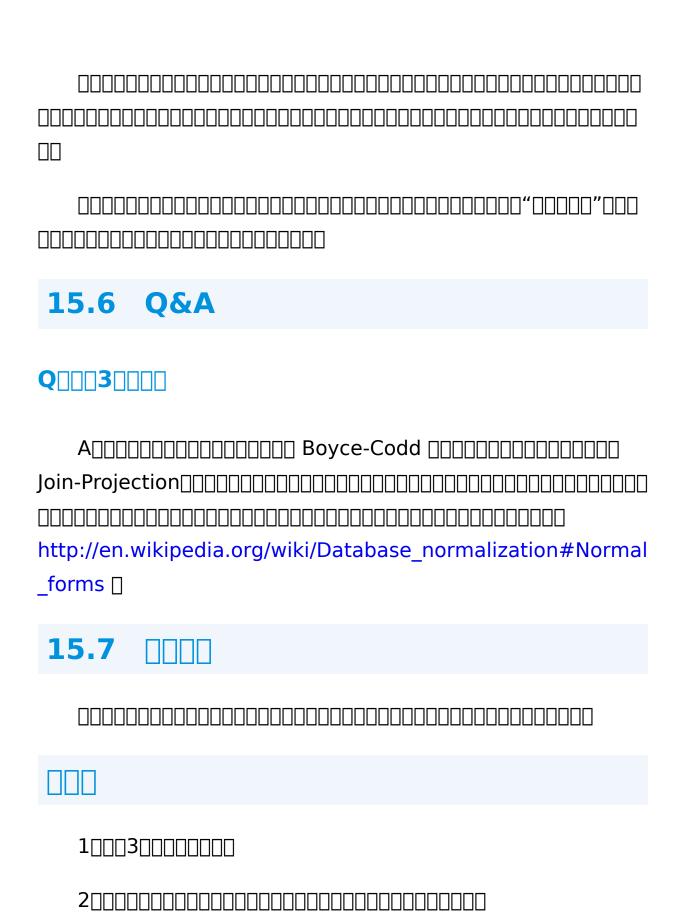


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15.4 | | | | | | |

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- 000000

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15.5 []



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16 SQL SQL

- **||||MySQL||||||**
- 0000CREATE TABLE
- 0000**INSERT**0000000
- 000SELECT
- DOSELECTODODODODOWHEREDODOGROUP BYODO
- 000**JOIN**0000000000
- DODUPDATE REPLACE DODUDO DO DO DO DODUDO DODUDO DO DODUDO DODUDO DO DODUDO DO DODUDO DODUD
- 0000**DELETE**0000000
- 0000**MySQL**0000000
- 0000MySQL000000000

16.1 MySQL

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16.1.1 | | | | | | |



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• BIGINT ——00000000000000000000000000000000000
$-9223372036854775808 \\ \square 9223372036854775807 \\ \square \\ \square \\ \square$
• FLOAT(M,D) ——00000000000000000000000000000000000
DD10,210,21010
FLOAT 24
• DOUBLE(M,D) ——00000000000000000000000000000000000
DDDD16,444DDDDDDDDDDDDDDDDDDDDDDDDDD
53REAL_DOUBLE
• DECIMAL(M,D) ——
DDDDDDDDDDDDDDDMDDDDDDDDDDDDDDNUMERICD
DECIMAL DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
16.1.2
MySQL
11-000000000000000000000000000000000000

MySQL
MySQL
• DATE ——YYYY-MM-DD[[[[[[[]]]]][[[]]]1000-01-01[[]9999-12-31[[[[]]]]1973[[12[[]]]1973-12-30[]
• DATETIME ——YYYY-MM-DD HH:MM:SS
1000-01-01 00:00:00[]9999-12-31 23:59:59[][][][][]1973 []12[]30[][]3:30[][][]1973-12-30 15:30:00[]
• TIMESTAMP ——1970[1][1][[][2037[[][][][][][][]
DDTIMESTAMPDDDDDDDDDDDDDDDDDTIMESTAMPDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD
19731230153000□TIMESTAMP□□□□□□12 (YYMMDDHHMMSS)□8 (YYYYMMDD)□6 (YYMMDD)□
• TIME —— []HH:MM:SS[][][][][]
• YEAR(M) ——

• YEAR(M) ——

2	4	1	1	1	1	1	1
YEAR	1970	2069	70	69	10	10	10
2155	10	10	14				
YEAR	1970	2069	70	69	10	10	
2155	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10					
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10	10	10				
YEAR	10						

16.1.3 00000

- CHAR(M) —— ________1_255______CHAR(5)____

SETODOENUMOODOOOOOOOOOOSETOOOOOOOOOOENUMOOOOOO
VARCHAR TEXT DO DO DO DO DENUM DO DO
16.2
 00000 000000 0000000
CREATE TABLE table_name (column_name column_type);
IDIDInventoryIDID

```
CREATE TABLE grocery_inventory (
             id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
             item_name VARCHAR (50) NOT NULL,
             item_desc TEXT,
             item_price FLOAT NOT NULL,
             curr qty INT NOT NULL
);
     MySQL
    16.3 □□INSERT□□
                INSERT INTO table_name (column list) VALUES (column values);
                NOT THE TOTAL PROPERTY OF THE PROPERTY OF THE
```

```
O'Connor said "Boo"
           INSERT INTO table_name (column_name) VALUES ("O'Connor said \"Boo\"");
           INSERT INTO table_name (column_name) VALUES ('0\'Connor said "Boo"');
- NSERTONO DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DEL CONTRETE DE LA CONTRETE DE LA CONTRETE DE LA CONTRETE DE LA C
INSERT INTO grocery_inventory
(id, item_name, item_desc, item_price, curr_qty)
VALUES ('1', 'Apples', 'Beautiful, ripe apples.', '0.25', 1000);
      • חחחחחחחחחחחחחחחחחחחחחח
INSERT INTO grocery inventory VALUES ('2', 'Bunches of Grapes',
'Seedless grapes.', '2.99', 500);
           חחחחחחחחחחחחחחחחחחחח"(Query OK"חחח
```

<pre>INSERT INTO grocery_inventory VALUES ('Bottled Water (6-pack)', '500ml spring water.', 2.29, 250);</pre>
ERROR 1136: Column count doesn't match value count at row 1
0000000MySQL000000000000000000000000000000000000
• 000dd0000000
<pre>INSERT INTO grocery_inventory (item_name, item_desc, item_price, curr_qty) VALUES ('Bottled Water (6-pack)', '500ml spring water.', '2.29', 250);</pre>
• 000000000000000000000000000000000000
<pre>INSERT INTO grocery_inventory VALUES ('NULL', 'Bottled Water (12-pack)', '500ml spring water.', 4.49, 500);</pre>
16.4
SELECT

```
SELECT expressions_and_columns FROM table_name
[WHERE some condition is true]
[ORDER BY some column [ASC | DESC]]
[LIMIT offset, rows]
 SELECT expressions_and_columns FROM table_name
 SELECT * FROM grocery inventory;
 ___grocery inventory______
ПППП
4 rows in set (0.00 sec)
 grocery inventory | id item name curr qty | |
SELECT id, item_name, curr_qty FROM grocery_inventory;
```

++	++
id item_name	curr_qty
++	++
1 Apples	1000
2 Bunches of Grapes	500
3 Bottled Water (6-pack)	250
4 Bottled Water (12-pack)	500
++	++
4 rows in set (0 00 sec)	

4 rows in set (0.00 sec)

16.4.1 ||||SELECT||||

BY_____item name_____

SELECT id, item_name, curr_qty FROM grocery_inventory ORDER BY item name;

++	++
id item_name	curr_qty
++	++
1 Apples	1000
4 Bottled Water (12-pack)	500
3 Bottled Water (6-pack)	250
2 Bunches of Grapes	500
++	++

4 rows in set (0.03 sec)

1, 2, 3, 6, 5.

ORDER BY]ASC[[[[A_Z000000000000
	וםםםםםםו	DESC00000
SELECT id, item_name, curr_qty ORDER BY item_name DESC;	FROM groce	ery_inventory
+ · · · · + · · · · · · · · · · · · · ·		
2 Bunches of Grapes 3 Bottled Water (6-pack) 4 Bottled Water (12-pack) 1 Apples	500 250 500 1000	
4 rows in set (0.00 sec)		•
000000000000000000000000000000000000000	J000000	000000000000000000000000000000000000000
16.4.2		
LIMITSELEC	T)LIMIT
<pre>grocery_inventory</pre>		curr_qty_
	tity	
SELECT id, item_name, curr_qt ORDER BY curr_qty LIMIT 2;	ty FROM gr	ocery_inventory

++ id item_name
3 Bottled Water (6-pack) 250 2 Bunches of Grapes 500 ++
2 rows in set (0.00 sec)
LIMITSELECTLIMIT
1 SELECT * FROM grocery_inventory ORDER BY curr_qty LIMIT 0, 2;
2 SELECT * FROM grocery_inventory ORDER BY curr_qty LIMIT 2, 2;
3 SELECT * FROM grocery_inventory ORDER BY curr_qty LIMIT 4, 2;
Web
16.5

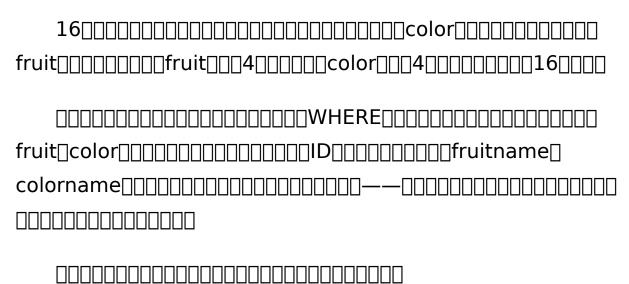
SELECT expressions_and_col [WHERE some_condition_is_t		able_name			
]500				
SELECT * FROM grocery_invent	ory WHERE cu	rr_qty = 500);		
++	item_des	 	totem_price	+q	+ ty
2 Bunches of Grapes 4 Bottled Water (12-pack	Seedless	grapes.	2.99	500	- 1
2 rows in set (0.00 sec)	+		·	+	+
16.5.1 WHERE		 	NSERT[[[[100000 10000	
				JUUUUL][]16-1	 -
]16-1	0000000			
			0 0		
=					
<					

				0 0		
	!=					
	>=		00000			
	<=		00000			
	>					
		y WHERE it	tem_price BE	TWEEN 1.50 A		
id	-+	item_desc	:	item_price	curr_q	ty
	Bunches of Grapes Bottled Water (6-pack) -+					
2 ro	ws in set (0.00 sec)				т	т
	00000000000000000000000000000000000000	1000001 1000001		0000000		

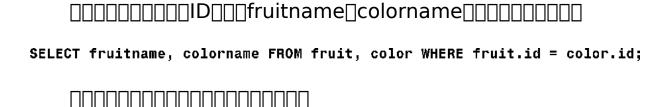
]WHERE=_!= ERELLKE_		300000000 300000000)0 00
• %——[][[• _——[]][
000000][[grocery_inventory[]) <u> </u>	
SELECT * FROM g	rocery_inventory WHERE item_	name LIKE 'A%'	;	
	+			
	Beautiful, ripe apples.			
1 row in set (0		,	,	
	00000LIKE0000000000000000000000000000000]DDDDDDDBINAF	₹Y□□□□□□□□□	
16.6 [[
	30000000000000000000000000000000000000			

fruitcolorSELECT
SELECT * FROM fruit;
++
1 apple 2 orange 3 grape 4 banana
++ 4 rows in set (0.00 sec)
SELECT * FROM color;
id colorname to colorname to red 2 orange 3 purple 4 yellow tows in set (0.00 sec)
DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD

+	+	+ +	++
id	fruitname	id	colorname
+	+	+ +	++
1	apple	1	red
2	orange	1	red
3	grape	1	red
4	banana	1	red
1	apple	2	orange
2	orange	2	orange
3	grape	2	orange
4	banana	2	orange
1	apple	3	purple
2	orange	3	purple
3	grape	3	purple
4	banana	3	purple
1	apple	4	yellow
2	orange	4	yellow
3	grape	4	yellow
4	banana	4	yellow
+	+ ·	+	++
16 rov	vs in set (0	.00 se	ec)



tablename.fieldname



++ fruitname colorname
++ apple
4 rows in set (0.00 sec)
SELECT id, fruitname, colorname FROM fruit, color WHERE fruit.id = color.id;
ERROR 1052: Column: 'id' in field list is ambiguous
fruitID
SELECT fruit.id, fruitname, colorname FROM fruit, color WHERE fruit.id = color.id;
++ id
1 apple red 2 orange orange 3 grape purple 4 banana yellow
4 rows in set (0.00 sec)
JOIN

16.6.1 □□JOIN

MySQL JOIN D Fruit Color JOIN D INNER JOIN The second color in the second colo
SELECT fruitname, colorname FROM fruit INNER JOIN color ON fruit.id = color.id;
+++ fruitname colorname ++
apple red orange orange grape purple banana yellow
4 rows in set (0.00 sec)
ONDDDDDDDDDDWHEREDDDDDDDDDDMySQLDDDDD
JOINLEFT JOINLEFT JOIN
master_name\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

name_id	firstname	lastname
1		 Smith
2	Jane	Smith
3	Jimbo	Jones
4	Andy	Smith
5	Chris	Jones
6	Anna	Bell
7	Jimmy	Carr
8	Albert	Smith
9	John	Doe

name_id	email 	- + - +
2 6 9	jsmith@jsmith.com annabell@aol.com jdoe@yahoo.com +	

SELECT firstname, lastname, email FROM master_name
LEFT JOIN email ON master_name.name_id = email.name_id;

+	lastname	++ email
++		+ +
John	Smith	
Jane	Smith	jsmith@jsmith.com
Jimbo	Jones	
Andy	Smith	
Chris	Jones	
Anna	Bell	annabell@aol.com
Jimmy	Carr	
Albert	Smith	
John	Doe	jdoe@yahoo.com
++		++

9 rows in set (0.00 sec)

9000000master name0009000300000000000 SELECT firstname, lastname, email FROM master_name RIGHT JOIN email ON master name.name id = email.name id; | firstname | lastname | email | Jane | Smith | jsmith@jsmith.com | 3 rows in set (0.00 sec) JOIN STRAIGHT JOIN NATURAL JOIN NO INCOME 16.6.2 ППППП

SELECT expressions_and_columns FROM table_name WHERE somecolumn = (SUBQUERY);

```
DELETE FROM table name WHERE somecolumn = (SUBQUERY);
  UPDATE table name SET somecolumn = 'something' WHERE somecolumn = (SUBQUERY);
SELECT firstname, lastname FROM master_name
WHERE name id IN (SELECT name id FROM email);
  firstname | lastname |
+ - - - - - - - - - + - - - - - - - +
| Jane | Smith
Anna
     | Bell
| John | Doe
3 rows in set (0.00 sec)
  http://dev.mysql.com/doc/refman/ 5.5/en/subqueries.html []
MySQL
```

16.7 || UPDATE || || || ||


```
UPDATE table_name
SET column1='new value',
column2='new value2'
[WHERE some condition is true]
```

```
+ - - + - - - + - - - + | id | fruit_name | status | + - - + - - - + | 1 | apple | ripe | | 2 | orange | rotten | | 3 | grape | ripe | | 4 | banana | rotten | + - - + - - + + | 4 rows in set (0.00 sec)
```

____ripe____

UPDATE fruit SET status = 'ripe';

Query OK, 2 rows affected (0.00 sec)
Rows matched: 4 Changed: 2 Warnings: 0

```
חחחחחחחחחח"grape"חחחחחחחחחחחחחחUPDATEחחחחח
UPDATE fruit SET fruit name = 'grape';
 Query OK, 4 rows affected (0.00 sec)
Rows matched: 4 Changed: 4 Warnings: 0
 0000000000000000040000000000fruit0000000
+---+
| id | fruit name | status |
+---+
4 rows in set (0.00 sec)
 fruit name
```

16.7.1 |||||UPDATE

ODDOOD ODDOOD OO ORDANDO

UPDATE fruit SET fruit_name = 'grape' WHERE fruit_name = 'grappe';

Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

SELECT * FROM fruit;

id fruit_name	++ status
+ +	-++ ripe
4 rows in set (0.0	-++ 00 sec)

16.7.2 UPDATE

grocery_inventory

id item_name	item_desc	+ item_price +	++ curr_qty ++
1 Apples	Beautiful, ripe apples.	0.25	1000
2 Bunches of Grapes	Seedless grapes.	2.99	500
3 Bottled Water (6-pack)	500ml spring water.	2.29	250
4 Bottled Water (12-pack)	500ml spring water.	4.49	500
5 Bananas	Bunches, green.	1.99	150
6 Pears	Anjou, nice and sweet.	0.5	500
7 Avocado	Large Haas variety.	0.99	750

7 rows in set (0.00 sec)

=1 inventory
100000000000000000000000000000000000000
= curr_qty - 1 WHERE id = 1;
esc item_price curr_qty

id item_name	item_desc	item_price	curr_qty
1 Apples	ack) 500ml spring water.	0.25	999
2 Bunches of Grapes		2.99	500
3 Bottled Water (6-pa		2.29	250
4 Bottled Water (12-pa		4.49	500
5 Bananas		1.99	150
6 Pears		0.5	500
7 Avocado		0.99	750

7 rows in set (0.00 sec)

16.8 || || **REPLACE**|| ||

REPLACE INTO table name (column list) VALUES (column values);

REPLACEMySQL_ANSI SQLDDELETEINSERT

REPLACE INTO grocery_inventory VALUES (1, 'Granny Smith Apples', 'Sweet!', '0.50', 1000);

Query OK, 2 rows affected (0.00 sec)

id item_name	item_desc	item_price	curr_qty
1 Granny Smith Apples 2 Bunches of Grapes 3 Bottled Water (6-pack) 4 Bottled Water (12-pack) 5 Bananas 6 Pears 7 Avocado	Sweet! Seedless grapes. 500ml spring water. 500ml spring water. Bunches, green. Anjou, nice and sweet. Large Haas variety.	0.50 2.99 2.29 4.49 1.99 0.5 0.99	1000 500 250 500 150 500

7 rows in set (0.00 sec)

16.9 DELETE

DELETE FROM table_name
[WHERE some_condition_is_true]
[LIMIT rows]

DDELETEDDELETE
fruit
id fruit_name status
DELETE FROM fruit;
SELECT * FROM fruit;
Empty set (0.00 sec)
fruitrotten
DELETE FROM fruit WHERE status = 'rotten';

```
Query OK, 2 rows affected (0.00 sec)
  + - - - + - - - - - - + - - - - - +
| id | fruit name | status |
+---+
| 3 | banana | ripe |
2 rows in set (0.00 sec)
  ONDER BYOOD ORDER BYOOD ORDER BYOOD
DELETE FROM table name
[WHERE some condition is true]
[ORDER BY some column [ASC | DESC]]
[LIMIT rows]
  000000000"00000000000000""ORDER BY00000000
+----+
| id | date_accessed | username |
+----+
| 1 | 2012-01-06 06:09:13 | johndoe |
2 | 2012-01-06 06:09:22 | janedoe |
| 3 | 2012-01-06 06:09:39 | jsmith
4 | 2012-01-06 06:09:44 | mikew
+---+
4 rows in set (0.00 sec)
```

DELETE FROM access_log ORDER BY date_accessed DESC LIMIT 1;

___access_log______3_____

SELECT * FROM access log;

16.10 MySQL

16.10.1 | | | | | | | |

OCTET_LENGTH() CHAR_LENGTH() CHARACTER_LENGTH()

SELECT LENGTH('This is cool!');

```
| LENGTH('This is cool!') |
+----+
1 row in set (0.00 sec)
  SELECT CONCAT('My', 'S', 'QL');
  | CONCAT('My', 'S', 'QL') |
+----+
| MySQL
1 row in set (0.00 sec)
  フ⊓⊓⊓⊓⊓⊓∏firstname∏∏lastname∏∏∏∏∏∏∏∏
SELECT CONCAT(firstname, lastname) FROM master name;
  | CONCAT(firstname, lastname) |
+----+
JohnSmith
| JaneSmith
| JimboJones
| AndySmith
| ChrisJones
| AnnaBell
| JimmyCarr
| AlbertSmith
JohnDoe
```

+ - - - - - - - - - - +

9 rows in set (0.00 sec)

```
CONCAT()
SELECT CONCAT('firstname', 'lastname') FROM master_name;
  CONCAT('firstname', 'lastname') |
 | firstnamelastname
 firstnamelastname
 | firstnamelastname
9 rows in set (0.00 sec)
  SELECT CONCAT_WS(' ', firstname, lastname) FROM master_name;
```

```
| CONCAT_WS(' ', firstname, lastname) |
+-----+
| John Smith
| Jane Smith
| Jimbo Jones
| Andy Smith
| Chris Jones
| Anna Bell
| Jimmy Carr
| Albert Smith
John Doe
+----+
9 rows in set (0.00 sec)
   SELECT CONCAT_WS(' ', firstname, lastname) AS fullname FROM master_name;
   | fullname |
John Smith
| Jane Smith
| Jimbo Jones |
| Andy Smith
| Chris Jones |
| Anna Bell
| Jimmy Carr
| Albert Smith |
| John Doe
+----+
9 rows in set (0.00 sec)
16.10.2
        SELECT RTRIM('stringstring ');
```

```
| RTRIM('stringstring ') |
| stringstring
+----+
1 row in set (0.00 sec)
  SELECT LTRIM(' stringstring');
  | LTRIM(' stringstring') |
| stringstring
+----+
1 row in set (0.00 sec)
  varchar
DDDTRIM()DDDDDDDDDDDDDDDDDDDXXXneedleXXX
SELECT TRIM(LEADING 'X' FROM 'XXXneedleXXX');
  | TRIM(LEADING 'X' FROM 'XXXneedleXXX') |
| needleXXX
+----+
1 row in set (0.00 sec)
  SELECT TRIM(TRAILING 'X' FROM 'XXXneedleXXX');
```

```
| TRIM(TRAILING 'X' FROM 'XXXneedleXXX') |
+----+
1 row in set (0.00 sec)
  SELECT TRIM('X' FROM 'XXXneedleXXX');
  | TRIM('X' FROM 'XXXneedleXXX') |
+-----+
1 row in set (0.00 sec)
  needle____10__10___10___
SELECT RPAD('needle', 10, 'X');
| RPAD('needle', 10, 'X') |
+-----+
| needleXXXX
+-----+
1 row in set (0.00 sec)
16.10.3
```

```
SELECT LOCATE('needle', 'haystackneedlehaystack');
               | LOCATE('needle', 'haystackneedlehaystack') |
1 row in set (0.00 sec)
               MySQL0000000
     LOCATE()
16.10.4
                                             NOTICE TO THE PROPERTY OF THE 
SELECT SUBSTRING("MySQL", 2, 3);
               | SUBSTRING("MySQL", 2, 3) |
1 row in set (0.00 sec)
```

```
SELECT LEFT("MySQL", 2);
 | LEFT("MySQL", 2) |
1 row in set (0.00 sec)
 ____RIGHT()_____
SELECT RIGHT ("MySQL", 3);
 | RIGHT("MySQL", 3) |
1 row in set (0.00 sec)
 ZZNODODODODODODODORIGHT()DODODODODODODODODO
16.10.5 DECIDE
```

SELECT UCASE('mysql');

+-----+ | UCASE('mysql') | +-----+ | MYSQL | +------+ 1 row in set (0.00 sec)

SELECT UCASE(lastname) FROM master_name;

```
+----+
| UCASE(lastname) |
BELL
CARR
DOE
JONES
JONES
| SMITH
SMITH
| SMITH
| SMITH
9 rows in set (0.00 sec)
  SELECT REPEAT("bowwow", 4);
  | REPEAT("bowwow", 4) |
| bowwodbowwodbowwod |
1 row in set (0.00 sec)
  SELECT REPLACE('bowwowbowwowbowwow', 'wow', 'WOW');
  | REPLACE('bowwowbowwowbowwow', 'wow', 'WOW') |
WOWwodWOWwodWOWwod |
1 row in set (0.00 sec)
16.11 MySQL
```

```
MySQLOODOOOOSELECTOOOOOOOOOOOOO
DDDDDDDDDDDDDDDDhttp://dev.mysql.com/doc/
refman/5.0/en/date-and-time-functions.html ☐MySQL☐☐☐
16.11.1
    SELECT DAYOFWEEK('2012-01-09');
 | DAYOFWEEK('2012-01-09') |
+----+
1 row in set (0.00 sec)
 | WEEKDAY('2012-01-09') |
+----+
1 row in set (0.00 sec)
```

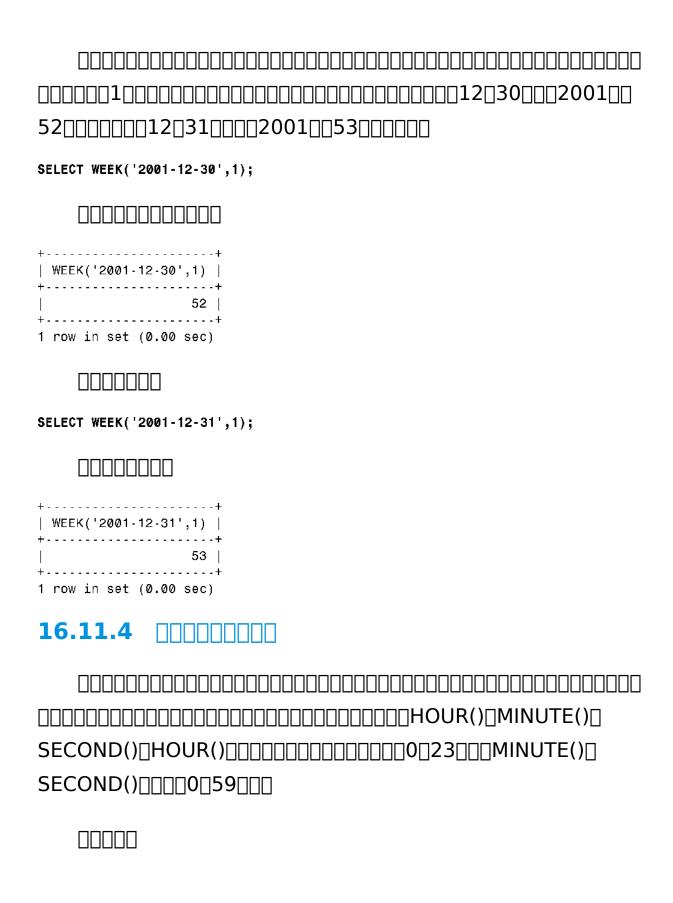
| 0000200601090000000WEEKDAY()000000000000000000000000000000000000 |
|--|
| |
| DAYOFMONTH()DAYOFYEAR()DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| SELECT DAYOFMONTH('2012-01-09'); |
| |
| ++
 DAYOFMONTH('2012-01-09')
++
 9
++
1 row in set (0.00 sec) |
| CELECT DAVOEVEAR(2012, 01, 40) . |
| SELECT DAYOFYEAR('2012-01-09'); |
| |
| ++
 DAYOFYEAR('2012-01-09')
++
 09
++
1 row in set (0.00 sec) |
| 00000000000000000000000000000000000000 |
| |

```
SELECT COUNT(id) FROM orders WHERE DAYOFWEEK(date ordered) < 4;
SELECT COUNT(id) FROM orders WHERE DAYOFWEEK(date ordered) > 3;
              SELECT COUNT(id) FROM orders WHERE DAYOFMONTH(date_ordered) < 16;</pre>
SELECT COUNT(id) FROM orders WHERE DAYOFMONTH(date_ordered) > 15;
              nnnndayname()nnnnnnnnnnnnnnnnnnnnnnnn
SELECT DAYNAME(date_ordered) FROM orders;
              | DAYNAME(date ordered) |
+----+
 | Thursday
 Monday
 | Thursday
 | Thursday
 Wednesday
  Thursday
 Sunday
 Sunday
8 rows in set (0.00 sec)
              OUTPER BY THE BY THE TOTAL THE TOTAL
SELECT DAYNAME(date_ordered) FROM orders ORDER BY DAYOFWEEK(date_ordered);
16.11.2 DESCRIPTION
              DAYOFWEEK() \sqcap DAYNAME() \sqcap \sqcap \sqcap \sqcap MONTH() \sqcap MONTHNAME() \sqcap \sqcap
SELECT MONTH('2012-01-09'), MONTHNAME('2012-01-09');
```

| ++
 MONTH('2012-01-09') MONTHNAME('2012-01-09')
++ |
|---|
| 1 |
| 1 row in set (0.00 sec) |
| orders[][]MONTHNAME()[][][][][][][][][][][][][][][][][][][] |
| ++
 MONTHNAME(date_ordered)
++ |
| November November |
| |
| SELECT DISTINCT MONTHNAME(date_ordered) FROM orders; |
| |
| ++
 MONTHNAME(date_ordered)
+ |
| November October |
| 2 rows in set (0.00 sec) |
| 00000YEAR()00000000000000 |

SELECT DISTINCT YEAR(date_ordered) FROM orders;

```
| YEAR(date_ordered) |
   2011
  2012
+----+
1 row in set (0.00 sec)
16.11.3 □□□
  SELECT DAYNAME('2001-12-30');
  | DAYNAME('2001-12-30') |
| Sunday
+----+
1 row in set (0.00 sec)
  SELECT WEEK('2001-12-30');
  +----+
| WEEK('2001-12-30') |
+----+
1 row in set (0.00 sec)
```



```
SELECT HOUR('2012-01-09 07:27:49') AS hour,
MINUTE('2012-01-09 07:27:49') AS minute,
SECOND('2012-01-09 07:27:49') AS second;
  +----+
| hour | minute | second |
+----+
| 7 | 27 | 49 |
+----+
1 row in set (0.00 sec)
  CONCAT_WS() ______ ":" _________
SELECT CONCAT_WS(':', HOUR('2012-01-09 07:27:49'),
MINUTE('2012-01-09 07:27:49')) AS sample time;
  +----+
| sample time |
+----+
| 7:27 |
+----+
1 row in set (0.00 sec)
16.11.5 DMySQLDDDD
  ____DATE_FORMAT()_____
DATE FORMAT(date, format)
  16-2 DATE FORMAT()
```

| 0 0 | |
|-----|---|
| %M | January December |
| %b | Jan Dec |
| %m | 0000000010120 |
| %c | |
| %W | |
| %a | Sun_Sat_ |
| %D | |
| %d | 000000000000000000000000000000000000000 |
| %e | 00000000310 |
| %j | 000000000000000000000000000000000000000 |
| %Y | |
| %y | |

| %X | 00000000000%V0000 |
|----|---|
| %x | 000000000000%V0000 |
| %w | 0=Sunday 6=Saturday |
| %U | 000000000000000000000000000000000000000 |
| %u | 000000000000000000000000000000000000000 |
| %V | 1_53%X |
| %v | 1_53%× |
| %H | |
| %k | 0_0_23_ |
| %h | |
| % | |
| %i | |

| 0 0 | |
|-----|---|
| %S | 0000_59 <u></u> |
| %s | 000000000000000000000000000000000000000 |
| %r | 12hh:mm:ss [AP]M_ |
| %Т | 24hh:mm:ss |
| %p | AM□PM |

SELECT DATE_FORMAT('2012-01-09 02:02:00', '%h:%i') AS sample_time;

```
+-----+
| sample_time |
+-----+
| 02:02 |
+-----+
1 row in set (0.00 sec)
```

```
SELECT DATE_FORMAT('2012-01-09', '%W, %M %D, %Y') AS sample_time;
  | sample_time
+----+
| Monday, January 9th, 2012 |
+----+
1 row in set (0.00 sec)
  SELECT DATE FORMAT(NOW(), '%W the %D of %M, %Y
around %l o\'clock %p') AS sample_time;
  | sample time
+----+
| Tuesday the 10th of January, 2012 around 8 o'clock PM |
+----+
1 row in set (0.04 sec)
  16.11.6 || MySQL|| || || ||
  MySQLOOOOOPHPOOOOO
            חחחחDATE ADD()חDATE SUB()חחחחחחחחח
DATE ADD(date,INTERVAL value type)
DATE SUB(date, INTERVAL value type)
```

16-3

| | SECOND |
|---------|---------------|
| 000 | MINUTE |
| | HOUR |
| | DAY |
| | MONTH |
| | YEAR |
| "□□:□□" | MINUTE_SECOND |
| "00:00" | HOUR_4MINUTE |
| "0000" | DAY_HOUR |
| "00-00" | YEAR_MONTH |
| "OO:OO: | HOUR_SECOND |

| | "0000:00" | DAY_MINUTE |
|----------------|--|--|
| | "0000:00:00" | DAY_SECOND |
| SELE | 21 | |
| | | |
| +
 20
+ | TE_ADD(NOW(), INTERVAL 21 DAY) | +
 |
| | ODATE_SUB() | |
| +
 20
+ | TE_SUB(NOW(), INTERVAL 21 DAY)
11-12-20 21:02:23
w in set (0.00 sec) | +

+

+ |
| | | DDDDDDAYDDDAYSDDDAYSDD |
| | | DUR SQL syntax near 'DAYS)' at line 1 DATE_ADD() DATE_SUB() DODD DOD |

```
SELECT DATE ADD("2011-12-31", INTERVAL 1 DAY);
  | DATE ADD("2011-12-31", INTERVAL 1 DAY) |
+----+
2012-01-01
+----+
1 row in set (0.00 sec)
  SELECT DATE_ADD("2011-12-31", INTERVAL 12 HOUR);
  | DATE_ADD("2011-12-31", INTERVAL 12 HOUR) |
+----+
| 2011-12-31 12:00:00
+----+
1 row in set (0.00 sec)
  SELECT "2011-12-31" + INTERVAL 1 DAY;
  | "2011-12-31" + INTERVAL 1 DAY |
2012-01-01
+----+
1 row in set (0.00 sec)
```

| $\label{eq:mysql} Mysql_{000000000000000000000000000000000000$ |
|--|
| CURDATE() CURRENT_DATE() CONTINUE OF CONTI |
| SELECT CURDATE(), CURRENT_DATE(); |
| |
| ++ CURDATE() CURRENT_DATE() ++ 2012-01-10 2012-01-10 ++ 1 row in set (0.01 sec) |
| DDDCURTIME()DCURRENT_TIME()DDDHH:MM:SSDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| <pre>SELECT CURTIME(), CURRENT_TIME();</pre> |
| |
| CURTIME() CURRENT_TIME()
 09:14:26 09:14:26
 row in set (0.00 sec) |
| NOW() SYSDATE() CURRENT_TIMESTAMP() CONTROL THE STAMP () CONTROL THE STA |
| SELECT NOW(), SYSDATE(), CURRENT_TIMESTAMP(); |
| |

```
+----+
| 2012-01-10 15:23:52 | 2012-01-10 15:23:52 | 2012-01-10 15:23:52 |
1 row in set (0.00 sec)
  OUNIXOOOOOUNIXOOOOOOUNIXOOOOO10101000000
SELECT UNIX_TIMESTAMP();
  | UNIX_TIMESTAMP() |
 1326247953
1 row in set (0.00 sec)
  SELECT UNIX_TIMESTAMP('1973-12-30');
  | UNIX_TIMESTAMP('1973-12-30') |
+-----+
         126086400
+-----+
1 row in set (0.00 sec)
  SELECT FROM_UNIXTIME('1326247953');
```

```
\Pi\Pi
mysql> SELECT FROM UNIXTIME(UNIX TIMESTAMP(), '%D %M %Y at
%h:%i:%s');
   | FROM UNIXTIME('1326247953') |
+----+
| 2012-01-10 21:12:33
1 row in set (0.00 sec)
   SELECT FROM_UNIXTIME(UNIX_TIMESTAMP(), '%D %M %Y at %h:%i:%s');
   \mid FROM_UNIXTIME(UNIX_TIMESTAMP(), '%D %M %Y at %h:%i:%s') \mid
+----+
| 10th January 2012 at 09:15:38
1 row in set (0.00 sec)
16.12
   100000 TOOLOO TOOLOO TOOLOO TARKA TARKA
```

| INSERTODODODODODODODODODODODODODODODODO |
|--|
| INSERT* |
| |
| |
| ONDORDER BY |
| |
| 00000000000000000000000000000000000000 |
| |
| |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| RIGHT JOIN DO MySQL DO |
| |
| |
| UPDATE REPLACE MySQL MySQL UPDATE MODEL |
| |
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| |
| DELETEDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| trueLIMIT |
| |
| MySQLM |
| |
| |
| RPAD()_LPAD()_TRIM()_LTRIM()_ |

| RRIM() |
|--|
| RIGHT() |
| LCASE() UCASE() REPEAT() REPLACE() UUU UUU UUU UUU UUU UUU UUU UUU UUU U |
| |
| |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| DAY() |
| WHERE ORDER BY |
| |
| 16.13 Q&A |
| |
| Q 000000000000000000000000000000000000 |
| |
| |
| |
| |
| Q0000000000000000000000000000000000000 |
| |
| Amaster_ name |
| firstname lastname |
| SELECT UCASE(CONCAT_WS(' ', firstname, lastname)) FROM master_name; |
| |
| |

```
| UCASE(CONCAT_WS(' ', firstname, lastname)) |
JOHN SMITH
| JANE SMITH
| JIMBO JONES
ANDY SMITH
| CHRIS JONES
ANNA BELL
| JIMMY CARR
| ALBERT SMITH
| JOHN DOE
+-----
9 rows in set (0.00 sec)
    ____lastname_____
SELECT CONCAT_WS(' ', firstname, UCASE(lastname)) FROM master_name;
    | CONCAT_WS(' ', firstname, UCASE(lastname)) |
| John SMITH
| Jane SMITH
| Jimbo JONES
Andy SMITH
| Chris JONES
Anna BELL
| Jimmy CARR
| Albert SMITH
| John DOE
9 rows in set (0.00 sec)
 16.14
```

```
1 \Box \Box \Box 56678685 \Box \Box \Box \Box \Box \Box \Box \Box
  3nnnnnnn25nnnLIMITnnnnnnnnnn25nnnLIMITnnnn
  5nnnnnnntable1nnnnnnidnnn?
  order\_id_{\square}_{\square}orders_{\square}_{\square}_{\square}_{\square}order\_name_order\_date_{\square}_{\square}
items_ordered[][][][item_description[][]
  □"applepearbananagrape"□□□□□□□
  1⊓MEDIUMINT, INT∏BIGINT∏
  2∏ENUM ('apple', 'pear', 'banana', 'cherry')
  П
  SET ('apple', 'pear', 'banana', 'cherry')∏
```

```
3 LIMIT 0, 25 LIMIT 25, 25 4 LIKE 'Jo%' 1 5 CONTROL 1 LIKE 'Jo%' 1 5 CONTROL 2 LIKE 'Jo%' 1 CONTROL 2 LIKE 'Jo%' 1 CONTROL 2 LIKE 'Jo%' 1 CONTROL 2 LIKE 'Jo Market 2 LIKE 'Jo Market 2 LIKE 2
```



17 OMYSQL OUT

- 000000000MySQL
- 000000000000MySQL0000000

17.1 | | | | | | |

| 17.1.1 | |
|--|---|
| MySQL | |
| • COMMIT ——00000000000000000000000000000000000 |] |
| • ROLLBACK ——00000000000000000000000000000000000 | |
| 00000000003000000MySQL0000000000000 | |
| 1000BEGIN00000000 | |
| 2 table1 table2 | |
| 300000table100000000ROLLBACK000000000000000000000000000000000000 | |
| 4table1table2_ | |
| 5table2ROLLBACK | |
| 6nnnnnntable1nnnnnnntable2n | |

```
700000000table300000ROLLBACK000000000000
8nnnnnnnnntable3nnnnCOMMITnnnnnnnnnnnnnnn
\Box\Box\Box
   http://dev.mysql.com/doc/
refman/5.0/en/transactionalcommands.html ☐MySQL☐☐☐
   17.1.2
   CREATE
CREATE TABLE store_inventory (
  id int not null primary key auto_increment,
  item name varchar(50),
  item price float(6,2),
  item_qty int
) ENGINE=InnoDB;
CREATE TABLE store_orders (
  id int not null primary key auto increment,
  purchaser name varchar(50),
  purchase date datetime
) ENGINE=InnoDB;
```

CREATE TABLE store_orders_items (

order_id int,
inventory_id int,
item_qty int
) ENGINE=InnoDB;

id int not null primary key auto_increment,

```
____store inventory______
+---+
| id | item_name | item_price | item_qty |
| 1 | Great Book | 19.99 | 10
| 2 | Awesome CD | 9.99 | 20
             BEGIN;
             2 store inventory contains a superior contains
UPDATE store_inventory SET item_qty = item_qty - 2 WHERE id = 1;
UPDATE store inventory SET item qty = item qty - 1 WHERE id = 2;
             3__store orders_____
INSERT INTO store_orders (purchaser_name, purchase_date)
                              VALUES ('John Smith', now());
             ROLLBACK;
             500000000000000000iD000000
store orders lineitems
\Box\Box\Box
INSERT INTO store orders items (order id, inventory id, item qty)
                               VALUES ('1', '1', '2');
INSERT INTO store orders items (order id, inventory id, item qty)
                               VALUES ('1', '2', '1');
```

| 6ROLLBACK |
|--|
| ROLLBACK; |
| 7ROLLBACK |
| ROLLBACK; |
| 80000000000000000000000000000000000000 |
| COMMIT; |
| PHP_MySQL18 |
| 1818PHP |
| • mysqli_autocommit() — |
| http://www.php.net/mysqli_autocommit |
| mysqli_commit() —http://www.php.net/mysqli_commit |
| mysqli_rollback() — http://www.php.net/mysqli_rollback |
| http://dev.mysql.com/doc/refman/5.5/en/sql-syntax- |

transactions.html

17.2 [[[[[[]]]]]

```
CREATE TABLE testSP (
 id int not null primary key auto increment,
 field name varchar(25),
 date added datetime
) ENGINE=InnoDB;
   +---+
| id | field_name | date_added
+---+
 1 | Value 1 | 2012-01-23 09:40:24 | 2 | Value 2 | 2012-01-24 09:40:24 |
| 10 | Value 10 | 2012-02-14 09:40:24 |
   0000000000000000000MySQL000000000000000
DELIMITER //
   CREATE PROCEDURE procedure name () query //
   CREATE PROCEDURE sp1 () SELECT * FROM testSP WHERE date_added BETWEEN
 DATE SUB(NOW(), INTERVAL 7 DAY) AND NOW() //
   CALL sp1 () //
```

| ++ | |
|-----------------|---------------------|
| id field_name | |
| ++ | + |
| 2 Value 2 | 2012-01-24 09:40:24 |
| 3 Value 3 | 2012-01-25 09:40:24 |
| 4 Value 4 | 2012-01-26 09:40:24 |
| 5 Value 5 | 2012-01-27 09:40:24 |
| 6 Value 6 | 2012-01-30 09:40:24 |
| ++ | |

17.3 □□

17.4 Q&A

Q___MySQL______

| 17.5 0000 |
|--|
| |
| |
| 1MyISAM_MySQL |
| 20000300000002000000000000 |
| 300000000000 |
| |
| 1InnoDB |
| 2 ROLLBACK |
| 30000000 |
| |
| 10000000000000000000000000000000000000 |
| 20000000000000000000000000000000000000 |

- 0000**PHP**00000000

18.1 MySQL MySQLi MySQLi

____PHP_____PHP_____MySQL______ mysql_*____mysql_*______mysql_*_____

18.2 | PHP MySQL

| $\verb $ |
|---|
| Web |
| 00000000000000000000000000000000000000 |
| _MySQLInternet |
| |
| |
| |
| somepass[][][][][][][][][][][][][][][][][][][|
| |
| |
| mysqli_* |
| 00000000000000000000000000000000000000 |
| |
| |
| |
| |
| 18.2.1 |
| |
| |
| <pre>\$mysqli = mysqli_connect("hostname", "username", "password", "database");</pre> |
| \$mysqliMySQL |
| |
| <pre>\$mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB");</pre> |
| |

| 000018.100000000000000200000000000000000 |
|---|
| |
| |
| |
| |
| <pre>1: <?php 2: \$mysqli = new mysqli("localhost", "joeuser", "somepass", "testDB"); 3:</pre></pre> |
| <pre>4: if (mysqli_connect_errno()) { 5: printf("Connect failed: %s\n", mysqli_connect_error()); 6: exit();</pre> |
| <pre>7: } else { 8: printf("Host information: %s\n", mysqli_get_host_info(\$mysqli)); 9: } 10: ?></pre> |
| |
| Host information: localhost via TCP/IP |
| |
| Host information: Localhost via UNIX socket |
| 5mysqli_connect_error() |
| Connect failed: Access denied for user 'joeuser'@'localhost' (using password: YES) |
| 8mysqli_get_host_info() |

```
1: <?php
2: $mysqli = new mysqli("localhost", "joeuser", "somepass", "testDB");
3:
4: if (mysqli_connect_errno()) {
5:    printf("Connect failed: %s\n", mysqli_connect_error());
6:    exit();
7: } else {
8:    printf("Host information: %s\n", mysqli_get_host_info($mysqli));
9:    mysqli_close($mysqli);
10: }
11: ?>
```

18.2.2 DDDD

_____18.3_____18.3______testTable

```
1: <?php
2: $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB");
4: if (mysqli_connect_errno()) {
       printf("Connect failed: %s\n", mysqli_connect_error());
6:
       exit();
7: } else {
      $sql = "CREATE TABLE testTable
8:
9:
              (id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
              testField VARCHAR(75))";
10:
11:
        $res = mysqli_query($mysqli, $sql);
12:
13:
        if ($res === TRUE) {
14:
               echo "Table testTable successfully created.";
15:
16:
            printf("Could not create table: %s\n", mysqli_error($mysqli));
17:
18:
19:
        mysqli close($mysqli);
20:
21: ?>
```



| \$restruemysqli_error()_ |
|--|
| 18.2.3 |
| |
| testTable |
| Could not create table: Table 'testtable' already exists |
| 0000000000000000000000000000000PHP000000 |
| 18.3 MySQL |
| |
| 18.3.1 SQL |
| 18.3SQL |

| 00000000000000000000000000000000000000 |
|--|
| |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| <pre>SELECT * FROM users WHERE name = '".\$_POST['username_from_form']."';</pre> |
| username_from_form |
| ' or '1'='1 |
| |
| SELECT * FROM users WHERE name = ' ' or '1'='1'; |
| 00000000000000 11 00000 |
| |

Data Objects) Da

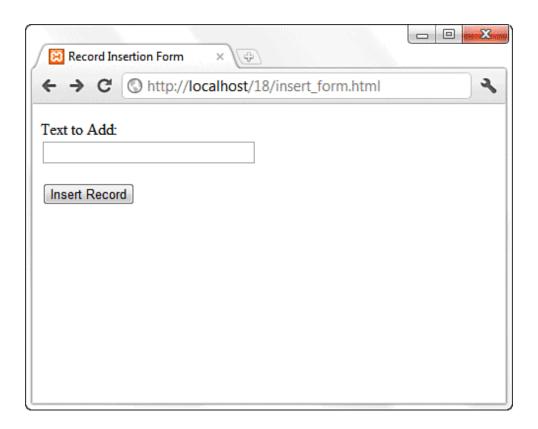
18.3.2 □□PHP□□□□

```
2:
   $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
4:
    if (mysqli_connect_errno()) {
5:
        printf("Connect failed: %s\n", mysqli_connect_error());
        exit();
7: } else {
        $$q1 = "INSERT INTO testTable (testField) VALUES ('some value')";
8:
9:
        $res = mysqli query($mysqli, $sql);
10:
11:
         if ($res === TRUE) {
12:
                echo "A record has been inserted.";
13:
14:
             printf("Could not insert record: %s\n", mysqli_error($mysqli));
15:
         }
16:
17:
         mysqli close($mysqli);
18:
19:
    ?>
```

| 000000000000000000MySQL000000000000000000000000000000000000 |
|---|
| mysqlinsert.phpWebsQL
testTableSQL |
| |
| insert.php_HTML18.5 |
| |

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>Record Insertion Form</title>
5: </head>
6: <body>
7: <form action="insert.php" method="POST">
8: <label for="testfield">Text to Add:</label><br/>
9: <input type="text" id="testfield" name="testfield" size="30" />
10: <button type="submit" name="submit" value="insert">Insert Record</button>
11: </form>
12: </body>
13: </html>
```

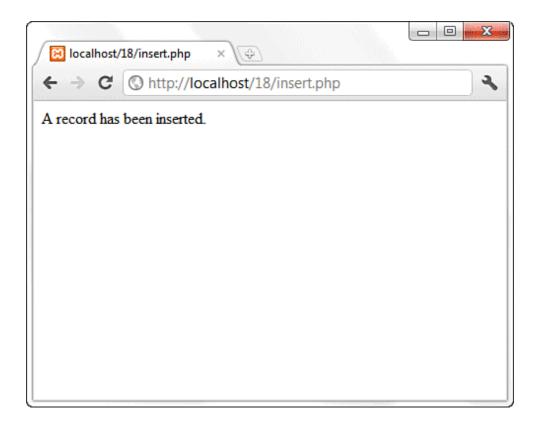
```
<?php
2:
   $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB");
4:
   if (mysqli connect errno()) {
       printf("Connect failed: %s\n", mysqli_connect_error());
5:
6:
       exit();
7: } else {
       $clean_text = mysqli_real_escape_string($mysqli, $_POST['testfield']);
       9:
10:
11:
       $res = mysqli_query($mysqli, $sql);
12:
13:
       if ($res === TRUE) {
14:
              echo "A record has been inserted.";
15:
       } else {
16:
           printf("Could not insert record: %s\n", mysqli_error($mysqli));
17:
18:
19:
       mysqli_close($mysqli);
20:
   }
21: ?>
```



018-1 00000000HTML00

__Text to Add______18-2____

| Record Inser | rtion Form × | |
|-----------------|--------------------------------------|---|
| ← → C | http://localhost/18/insert_form.html | 4 |
| Text to Add: | | |
| Little Bobby Ta | bles | |
| Insert Record | | |
| | | |
| | | |
| | | |
| | | |
| | | |



```
SELECT * FROM testTable;
```

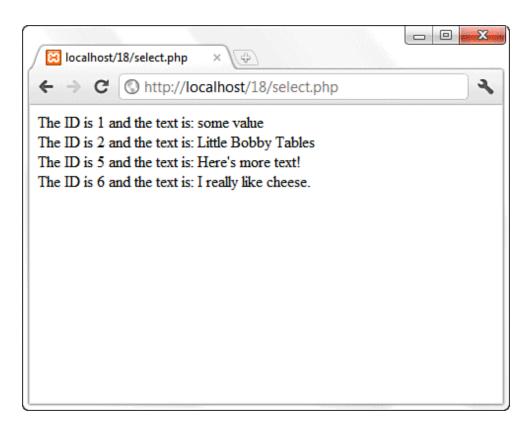
18.3.3 | | | | | PHP | | | | |

```
1: <?php
2:
    $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB");
4:
   if (mysqli_connect_errno()) {
        printf("Connect failed: %s\n", mysqli_connect_error());
6:
        exit();
7: } else {
        $sql = "SELECT * FROM testTable";
8:
9:
        $res = mysqli query($mysqli, $sql);
10:
11:
         if ($res) {
12:
             $number_of_rows = mysqli_num_rows($res);
13:
             printf("Result set has %d rows.\n", $number_of_rows);
14:
         } else {
15:
             printf("Could not retrieve records: %s\n", mysqli_error($mysqli));
16:
17:
18:
         mysqli free result($res);
         mysqli_close($mysqli);
19:
20:
    }
21:
    ?>
```

Result set has 4 rows.

```
$newArray = mysqli_fetch_array($result_set);
```

```
1: <?php
2: $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
3:
4: if (mysqli_connect_errno()) {
        printf("Connect failed: %s\n", mysqli_connect_error());
5:
6:
        exit();
7: } else {
        $sql = "SELECT * FROM testTable";
8:
9:
        $res = mysqli_query($mysqli, $sql);
10:
         if ($res) {
11:
             while ($newArray = mysqli fetch array($res, MYSQLI ASSOC)) {
12:
                 id = \text{snewArray}['id'];
13:
14:
                 $testField = $newArray['testField'];
15:
                 echo "The ID is ".$id." and the text is: ".$testField."<br/>";
16:
17:
         } else {
18:
             printf("Could not retrieve records: %s\n", mysqli_error($mysqli));
19:
         }
20:
21:
         mysqli free result($res);
22:
         mysqli close($mysqli);
23: }
    ?>
24:
```



□18-4 □MySQL□□□□

18.3.4 PHP□□□□MySQL□□

| 18.4 |
|---------------------|
| PHP_MySQLWebPHP
 |
| |
| 18.5 Q&A |
| Qmysql_*_mysqli_* |
| APHP |
| 18.6 |
| |
| |

| 1[|]PHP_MySQL |
|----|--|
| 2[|]PHPMySQL |
| 3[|]PHP |
| | |
| 1[|]mysqli_connect()[[][][][MySQL[][][][][][][][][][] |
| 2[|]mysqli_error()[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[[|
| 3[|]mysqli_num_rows()[[][][][][][][][][][] |
| | |
| |]HTMLPHP
 |
| 2[| 100000000000PHP000000000000000000000000 |
| | |

5 0 0 0

- **□28□ □□XML**

- 0000000/0000000
- חחחחחחחחחחחח
- 0000000000

19.1 | | | | | |

• 000Email

- ||____Email
- 000000000

19.1.1 || subscribers

```
CREATE TABLE subscribers (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   email VARCHAR (150) UNIQUE NOT NULL
);
```

___Email____UNIQUE______id___id____

Email

DESCRIBENTATATATATA

mysql> DESC subscribers;

| ++
 Field Type
++ | Null | Key Default | Extra |
|------------------------------|------|--------------------------|----------------------|
| id | NO | PRI NULL
UNI NULL | auto_increment
 |
| 2 rows in set (0.00 sec) | | | т |

2 rows in set (0.00 sec)

```
1: <?php
2: // function to connect to database
3: function doDB() {
4:
        global $mysqli;
5:
6:
        //connect to server and select database
        $mysqli = mysqli connect("localhost", "joeuser",
7:
            "somepass", "testDB");
8:
9:
10:
         //if connection fails, stop script execution
11:
         if (mysqli connect errno()) {
             printf("Connect failed: %s\n", mysqli_connect_error());
12:
13:
             exit();
14:
         }
15: }
16:
    // function to check email address
17: function emailChecker($email) {
18:
        global $mysqli, $safe email, $check res;
19:
20:
        //check that email is not already in list
        $safe email = mysqli real escape string($mysqli, $email);
21:
        $check_sql = "SELECT id FROM SUBSCRIBERS
22:
23:
             WHERE email = '".$safe_email."'";
24:
        $check res = mysqli query($mysqli, $check sql)
25:
             or die(mysqli error($mysqli));
26: }
27: ?>
```

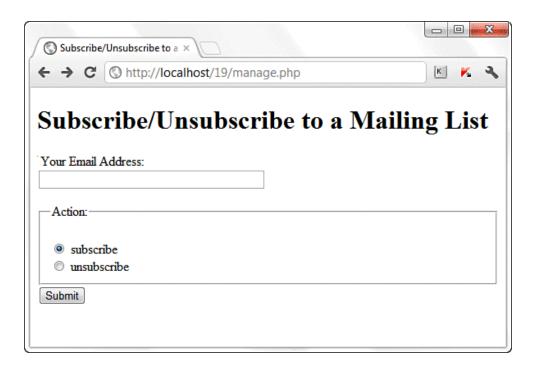
| |]ch19_include.phpWeb19.2 |
|--------|--------------------------|
| | |
| 19.1.3 | |

 $\square\square\square\square$ 19.2 $\square\square$ manage.php $\square\square\square\square$

```
1:
   <?php
   include 'ch19 include.php';
   //determine if they need to see the form or not
   if (!$ POST) {
5:
        //they need to see the form, so create form block
6:
       $display_block = <<<END_0F_BL0CK</pre>
7:
       <form method="POST" action="$ SERVER[PHP SELF]">
8:
9:
       <label for="email">Your E-Mail Address:</label><br/>
       <input type="email" id="email" name="email"</pre>
10:
              size="40" maxlength="150" />
11:
12:
13:
       <fieldset>
14.
       <legend>Action:</legend><br/>
15:
       <input type="radio" id="action_sub" name="action"</pre>
16:
              value="sub" checked />
17:
       <label for="action sub">subscribe</label><br/>
18:
       <input type="radio" id="action unsub" name="action"</pre>
19:
              value="unsub" />
20:
       <label for="action unsub">unsubscribe</label>
21:
       </fieldset>
22:
23:
       <button type="submit" name="submit" value="submit">Submit/button>
24:
       </form>
25:
    END_OF_BLOCK;
26:
    } else if (($ POST) && ($ POST['action'] == "sub")) {
27:
         //trying to subscribe; validate email address
28:
         if ($ POST['email'] == "") {
29:
             header("Location: manage.php");
30:
             exit;
31:
         } else {
32:
             //connect to database
33:
             doDB();
34:
             //check that email is in list
35:
36:
             emailChecker($ POST['email']);
37:
38:
             //get number of results and do action
39:
             if (mysqli_num_rows($check_res) < 1) {</pre>
40:
                 //free result
41:
                 mysqli free result($check res);
42:
43:
                 //add record
44:
                 $add sql = "INSERT INTO subscribers (email)
                            VALUES('".$safe email."')'
45:
                 $add_res = mysqli_query($mysqli, $add_sql)
46:
47:
                             or die(mysqli_error($mysqli));
48:
                 $display_block = "Thanks for signing up!";
49:
50:
                 //close connection to MySQL
                 mysqli_close($mysqli);
51:
52:
             } else {
53:
                 //print failure message
54:
                 $display_block = "You're already subscribed!";
```

```
55:
             }
56:
     } else if (($_POST) && ($_POST['action'] == "unsub")) {
57:
58:
         //trying to unsubscribe; validate email address
         if ($_POST['email'] == "") {
59:
60:
             header("Location: manage.php");
61:
             exit;
62:
         } else {
63:
             //connect to database
64:
             doDB();
65:
             //check that email is in list
66:
67:
             emailChecker($_POST['email']);
68:
69:
             //get number of results and do action
70:
             if (mysqli_num_rows($check_res) < 1) {</pre>
71:
                 //free result
72:
                 mysqli_free_result($check_res);
73:
74:
                 //print failure message
75:
                 $display_block = "Couldn't find your address!
76:
                 No action was taken.";
77:
             } else {
78:
                 //get value of ID from result
79:
                 while ($row = mysqli_fetch_array($check_res)) {
80:
                     id = row['id'];
81:
                 }
82:
                 //unsubscribe the address
83:
                 $del_sql = "DELETE FROM subscribers
84:
                             WHERE id = ".$id;
85:
86:
                 $del_res = mysqli_query($mysqli, $del_sql)
87:
                            or die(mysqli_error($mysqli));
                 $display_block = "You're unsubscribed!";
88:
89:
90:
             mysqli_close($mysqli);
91:
         }
92:
     }
93: ?>
94: <!DOCTYPE html>
95: <html>
96:
    <head>
97:
    <title>Subscribe/Unsubscribe to a Mailing List</title>
98: </head>
99: <body>
100: <h1>Subscribe/Unsubscribe to a Mailing List</h1>
101: <?php echo "$display_block"; ?>
102: </body>
103: </html>
```

Ch19_include.php



19-1 00/000

_____75___76______1___1____1____1____1 _____84___88_______if...else_____101____ HTML



□19-2 □□□□



□19-3 □□□□



□19-4 □□□□



[] 19-5

____Email____

19.2 [[[[[[]]]]]]

| | |
 |
 | |
|-----------|------|------|------|--|
| 000000000 |
 | | | |

000019.3 000000000

```
1: <?php
2: include 'ch19_include.php';
3: if (!$ POST) {
        //haven't seen the form, so display it
4:
        $display_block = <<<END_OF_BLOCK</pre>
        <form method="POST" action="$ SERVER[PHP SELF]">
6:
7:
        <label for="subject">Subject:</label><br/>
8:
        <input type="text" id="subject" name="subject" size="40" />
9:
10:
        <label for="message">Mail Body:</label><br/>
11:
        <textarea id="message" name="message" cols="50"
12:
           rows="10"></textarea>
        <button type="submit" name="submit" value="submit">Submit/button>
13:
14:
        </form>
15: END OF BLOCK;
16: } else if ($ POST)
        //want to send form, so check for required fields
18:
        if ((\protect'] == "") || (\protect_ressage'] == "")) {
19:
             header("Location: sendmymail.php");
20:
             exit;
21:
        }
22:
23:
        //connect to database
24:
        doDB();
25:
26:
        if (mysqli_connect_errno()) {
27:
             //if connection fails, stop script execution
28:
             printf("Connect failed: %s\n", mysqli_connect_error());
29:
             exit();
30:
        } else {
             //otherwise, get emails from subscribers list
31:
32:
             $sql = "SELECT email FROM subscribers";
33:
             $result = mysqli_query($mysqli, $sql)
34:
                      or die(mysqli error($mysqli));
35:
36:
             //create a From: mailheader
             $mailheaders = "From: Your Mailing List
37:
38:
                 <you@yourdomain.com>";
39:
             //loop through results and send mail
             while ($row = mysqli fetch array($result)) {
40:
41:
                 set_time_limit(0);
42:
                 $email = $row['email'];
43:
                 mail("$email", stripslashes($ POST['subject']),
44:
                      stripslashes($ POST['message']), $mailheaders);
                 $display_block .= "newsletter sent to: ".$email."<br/>";
45:
46:
47:
             mysqli_free_result($result);
48:
             mysqli close($mysqli);
49:
        }
50: }
51: ?>
52: <!DOCTYPE html>
```



| Sending a Newsletter × | | - O <u>~ X</u> |
|------------------------|-----|----------------|
| ← → C | ☆ [| KI K J |
| Send a Newsletter | | |
| | | |
| Subject: | | |
| Mail Body: | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Submit | | |

[] 19-6

| \$_POST false subscribers |
|--|
| \$_POST['subject'] |
| \$_POST['message'] |

set_time_limit()_____0___0___nno limit."_______



| This is a Test Mail - jcmeloni@gmail.com - Gmail - | Google Chrome |
|--|--|
| https://mail.google.com/mail/?ui=2&view=btop& | tver=18zqbez0n5t35&search=inbox&th=13637010289b153 |
| This is a Test Mail | ⊕ Print all |
| Your Mailing List you@yourdomain.co | om 5:27 PM (2 minutes ago) 🌣 🕒 |
| I like cheese. Do you? | |
| Click here to Reply or Forward | |
| | |
| | |
| | |

19.3 []

19.4 Q&A

Q000000000000000

| AEmailFrom: Reply-to |
|---|
| 19.5 |
| |
| |
| 10000000 |
| 2000000019.10\$mysqli0000000 |
| 300000000000000000000000000000000000000 |
| |
| 1mail() |
| 20000\$mysqli000000000000000000000000000000000000 |
| |

set_time_limit(0)

| 1manage.phpEmail |
|---|
| 2000sendmymail.php00000000000000000000000000000000000 |
|)mail()_ |
| |

20.1

| 0 0 | |
|----------------|---|
| master_name | id, date_added, date_modified, f_name, l_name |
| address | id, master_id, date_added, date_modified, address, city, state, zipcode, type |
| Telephone | id, master_id, date_added, date_modified, tel_number, type |
| fax | id, master_id, date_added, date_modified, fax_number, type |
| email | id, master_id, date_added, date_modified, email, type |
| personal_notes | id, master_id, date_added, date_modified, note |

| date_added_date_Modified |
|--------------------------|
| |
| |

| SQLIDIDmaster_name |
|---|
| $\verb $ |
| Mary Jones |

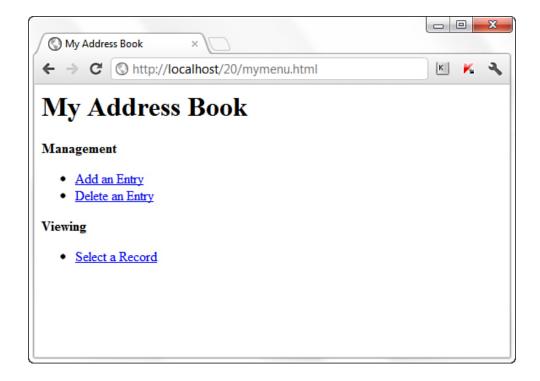
```
□□□SQL□□□□□master name□□
CREATE TABLE master_name (
  id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
  date_added DATETIME,
  date_modified DATETIME,
  f_name VARCHAR (75),
  1_name VARCHAR (75)
);
   ______master_name____address__
□□□□□id□□□□date added□date modified□□□□□□□□□□□
master id□□□
   master id___master name___id_____
master id
                              ]__________
                             ¬□□□home□work□other□□□
□□□□□□□address□city□state□zipcode□□□□□□□□□
CREATE TABLE address (
  id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
  master_id INT NOT NULL,
  date added DATETIME,
  date_modified DATETIME,
  address VARCHAR (255),
  city VARCHAR (30),
  state CHAR (2),
  zipcode VARCHAR (10),
  type ENUM ('home', 'work', 'other')
);
```

```
CREATE TABLE telephone (
   id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
   master_id INT NOT NULL,
   date_added DATETIME,
   date_modified DATETIME,
   tel number VARCHAR (25),
   type ENUM ('home', 'work', 'other')
);
CREATE TABLE fax (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   master_id INT NOT NULL,
   date added DATETIME,
   date_modified DATETIME,
   fax_number VARCHAR (25),
   type ENUM ('home', 'work', 'other')
CREATE TABLE email (
   id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
   master id INT NOT NULL,
   date_added DATETIME,
   date_modified DATETIME,
   email VARCHAR (150),
   type ENUM ('home', 'work', 'other')
);
    personal notes
CREATE TABLE personal_notes (
   id int NOT NULL PRIMARY KEY AUTO INCREMENT,
   master_id INT NOT NULL UNIQUE,
   date_added DATETIME,
   date_modified DATETIME,
   note TEXT
);
```

```
1: <?php
2: function doDB() {
        global $mysqli;
4:
        //connect to server and select database; you may need it
        $mysqli = mysqli connect("localhost", "joeuser",
6:
            "somepass", "testDB");
7:
8:
9:
       //if connection fails, stop script execution
10:
         if (mysqli_connect_errno()) {
             printf("Connect failed: %s\n", mysqli connect error());
11:
12:
             exit();
13:
         }
14: }
15: ?>
```

20.3

```
1: <!DOCTYPE html>
2: <html>
3: <head>
4: <title>My Address Book</title>
5: </head>
6: <body>
7: <h1>My Address Book</h1>
9: <strong>Management</strong>
11: <a href="addentry.php">Add an Entry</a>
12: <a href="delentry.php">Delete an Entry</a>
13: 
14:
15: <strong>Viewing</strong>
16: 
17: <a href="selentry.php">Select a Record</a>
18: 
19: </body>
20: </html>
```



20.4

 \square 20.3 \square addentry.php \square \square

```
1:
     <?php
2:
     include 'ch20_include.php';
3:
     if (!$ POST) {
4:
5:
         //haven't seen the form, so show it
6:
         $display_block = <<<END_OF_TEXT</pre>
7:
         <form method="post" action="$_SERVER[PHP_SELF]">
8:
         <fieldset>
9:
         <legend>First/Last Names:</legend><br/>
         <input type="text" name="f_name" size="30"</pre>
10:
                maxlength="75" required="required" />
11:
12:
         <input type="text" name="1 name" size="30"</pre>
13:
                maxlength="75" required="required" />
14:
         </fieldset>
15:
16:
         <label for="address">Street Address:</label><br/>>
17:
         <input type="text" id="address" name="address"</pre>
                size="30" />
18:
19:
20:
         <fieldset>
21:
         <legend>City/State/Zip:</legend><br/>
22:
         <input type="text" name="city" size="30" maxlength="50" />
         <input type="text" name="state" size="5" maxlength="2" />
23:
24:
         <input type="text" name="zipcode" size="10" maxlength="10" />
25:
         </fieldset>
26:
27:
         <fieldset>
28:
         <legend>Address Type:</legend><br/>
29:
         <input type="radio" id="add_type_h" name="add_type"
                value="home" checked />
30:
31:
                <label for="add_type_h">home</label>
         <input type="radio" id="add_type_w" name="add_type"</pre>
32:
                value="work" />
33:
34:
                <label for="add_type_w">work</label>
         <input type="radio" id="add_type_o" name="add_type"</pre>
35:
36:
                value="other" />
37:
                <label for="add_type_o">other</label>
         </fieldset>
38:
39:
40:
          <fieldset>
41:
          <legend>Telephone Number:</legend><br/>
42:
          <input type="text" name="tel_number" size="30" maxlength="25" />
          <input type="radio" id="tel type h" name="tel type"</pre>
43:
                  value="home" checked />
44:
45:
                  <label for="tel type h">home</label>
46:
          <input type="radio" id="tel_type_w" name="tel_type"</pre>
                  value="work" />
47:
48:
                  <label for="tel type w">work</label>
          <input type="radio" id="tel_type_o" name="tel_type"</pre>
49:
                  value="other" />
50:
51:
                  <label for="tel_type_o">other</label>
52:
          </fieldset>
53:
```

```
54:
         <fieldset>
55:
         <legend>Fax Number:</legend><br/>
56:
         <input type="text" name="fax_number" size="30" maxlength="25" />
         <input type="radio" id="fax_type_h" name="fax_type"</pre>
57:
                 value="home" checked />
58:
                 <label for="fax type h">home</label>
59:
60:
         <input type="radio" id="fax_type_w" name="fax_type"</pre>
61:
                 value="work" />
                 <label for="fax_type_w">work</label>
62:
         <input type="radio" id="fax_type_o" name="fax_type"</pre>
63:
                 value="other" />
64:
65:
                 <label for="fax_type_o">other</label>
66:
         </fieldset>
67:
         <fieldset>
68:
         <legend>Email Address:</legend><br/>
69:
70:
         <input type="email" name="email" size="30" maxlength="150" />
71:
         <input type="radio" id="email type h" name="email type"</pre>
                 value="home" checked />
72:
73:
                 <label for="email_type_h">home</label>
         <input type="radio" id="email_type_w" name="email_type"</pre>
74:
75:
                 value="work" />
76:
                 <label for="email_type_w">work</label>
77:
         <input type="radio" id="email_type_o" name="email_type"</pre>
78:
                 value="other" />
79:
                 <label for="email_type_o">other</label>
80:
         </fieldset>
81:
82:
         <label for="note">Personal Note:</label><br/>
         <textarea id="note" name="note" cols="35"
83:
84:
                    rows="3"></textarea>
85:
86:
         <button type="submit" name="submit"</pre>
87:
                  value="send">Add Entry</button>
88:
         </form>
     END_OF_TEXT;
89:
```

_____\$_POST_____\$_POST_____\$_POST______

| <u></u> | | _ 0 × |
|-------------------|----------------------------------|-------|
| Add an Entry | × | |
| ← → G (0) | nttp://localhost/20/addentry.php | K K 4 |
| Add an Ent | trv | |
| First/Last Names: | | |
| First/Last Names: | | |
| | | |
| Street Address: | | |
| | | |
| City/State/Zip: | | |
| | | |
| Address Type: | | |
| | | |
| home work | other | |
| Telephone Number: | | |
| - | ● home ○ work ○ other | |
| Fax Number: | o nome o work o other | |
| rax romber. | | |
| | home work other | |
| Email Address: | | |
| | ● home ○ work ○ other | |
| 2.00 | S nome S work S other | |
| Personal Note: | | |
| | | |
| | | |
| Add Entry | | |
| | | |

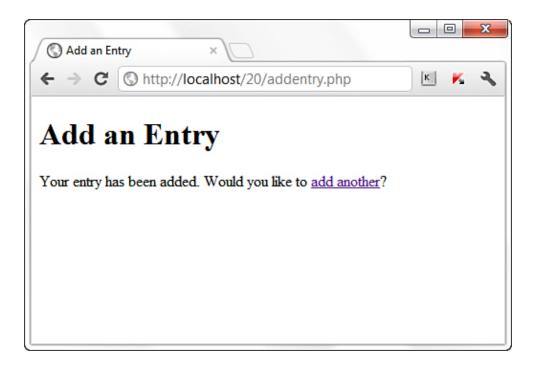
[20-2 [][[][[][]

```
90:
     } else if ($ POST) {
91:
         //time to add to tables, so check for required fields
92:
         if (($ POST['f name'] == "") || ($ POST['l name'] == "")) {
93:
             header("Location: addentry.php");
94:
              exit;
95:
         }
96:
         //connect to database
98:
         doDB();
99:
100:
         //create clean versions of input strings
101:
         $safe f name = mysqli real escape string($mysqli,
102:
               $_POST['f_name']);
103:
         $safe l name = mysqli_real_escape string($mysqli,
104:
               $_POST['1_name']);
105:
         $safe address = mysqli real escape string($mysqli,
106:
               $_POST['address']);
107:
         $safe city = mysqli real escape string($mysqli,
108:
               $_POST['city']);
109:
         $safe_state = mysqli_real_escape_string($mysqli,
110:
               $ POST['state']);
         $safe_zipcode = mysqli_real_escape_string($mysqli,
111:
112:
               $_POST['zipcode']);
113:
         $safe_tel_number = mysqli_real_escape_string($mysqli,
114:
               $_POST['tel_number']);
115:
         $safe_fax_number = mysqli_real_escape_string($mysqli,
116:
               $_POST['fax_number']);
117:
         $safe_email = mysqli_real_escape_string($mysqli,
118:
               $ POST['email']);
119:
         $safe_note = mysqli_real_escape_string($mysqli,
120:
               $_POST['note']);
121:
122:
        //add to master name table
        $add_master_sql = "INSERT INTO master_name (date_added,
123:
            date_modified, f_name, l_name) VALUES
124:
             (now(), now(), '".$safe_f_name."', '".$safe_l_name."')";
125:
126:
        $add master res = mysqli query($mysqli, $add master sql)
127:
             or die(mysqli_error($mysqli));
128:
        //get master id for use with other tables
129:
130:
        $master id = mysqli insert id($mysqli);
131:
132:
        if (($_POST['address']) || ($_POST['city']) ||
             ($_POST['state']) || ($_POST['zipcode'])) {
133:
134:
            //something relevant, so add to address table
            $add address sql = "INSERT INTO address (master id,
135:
                  date_added, date_modified, address, city, state,
136:
137:
                  zipcode, type) VALUES
                  ('".$master_id."', now(), now(),
138:
                  '".$safe_address."', '".$safe_city."',
'".$safe_state."' , '".$safe_zipcode."' ,
139:
140:
                  '".$_POST['add_type']."')";
141:
            $add_address_res = mysqli_query($mysqli, $add_address_sql)
142:
143:
                  or die(mysqli_error($mysqli));
```

```
144:
        }
145:
146:
        if ($_POST['tel_number']) {
147:
             //something relevant, so add to telephone table
             $add_tel_sql = "INSERT INTO telephone (master_id, date_added,
148:
149:
                  date_modified, tel_number, type) VALUES
                  ('".$master_id."', now(), now(),
'".$safe_tel_number."', '".$_POST['tel_type']."')";
150:
151:
             $add_tel_res = mysqli_query($mysqli, $add_tel_sql)
152:
153:
                  or die(mysqli_error($mysqli));
154:
        }
```

```
155:
        if ($_POST['fax_number']) {
156:
157:
            //something relevant, so add to fax table
158:
            $add_fax_sql = "INSERT INTO fax (master_id, date_added,
159:
                 date_modified, fax_number, type) VALUES
                ('".$master_id."', now(), now(), '".$safe_fax_number."',
160:
                '".$_POST['fax_type']."')";
161:
            $add_fax_res = mysqli_query($mysqli, $add_fax_sql)
162:
163:
                 or die(mysqli_error($mysqli));
164:
165:
        if ($ POST['email']) {
166:
            //something relevant, so add to email table
            $add email sql = "INSERT INTO email (master id, date added,
167:
168:
                 date_modified, email, type) VALUES
                 ('".$master_id."', now(), now(), '".$safe_email."',
169:
                 '".$_POST['email_type']."')";
170:
171:
            $add_email_res = mysqli_query($mysqli, $add_email_sql)
172:
                 or die(mysqli_error($mysqli));
173:
        }
174:
        if ($_POST['note']) {
175:
176:
            //something relevant, so add to notes table
177:
            $add_notes_sql = "INSERT INTO personal_notes (master_id,
178:
                 date_added, date_modified, note) VALUES
                 ('".$master_id.", now(), now(),
179:
                 '".$safe_note."')";
180:
181:
            $add_notes_res = mysqli_query($mysqli, $add_notes_sql)
182:
                 or die(mysqli error($mysqli));
183:
184:
        mysqli close($mysqli);
185:
        $display block = "Your entry has been added. Would you
186:
             like to <a href=\"addentry.php\">add another</a>?";
187: }
188: ?>
189: <!DOCTYPE html>
190: <head>
191: <title>Add an Entry</title>
192: </head>
193: <body>
194: <h1>Add an Entry</h1>
195: <?php echo $display_block; ?>
196: </body>
197: </html>
```

| 00000000000000000HTML 50required000000000000000000000000000000000000 |
|--|
| 0000000000009800000000000000000 |
| mysqli_real_escape_string()[|
| |
| |
| \$master_id_ |
| |
| 132 133 |
| ['zipcode']135143 |
| |
| 0017501830000personal_notes001230130000000000000000000000000000000 |
| |
| else189_197HTML20-3 |

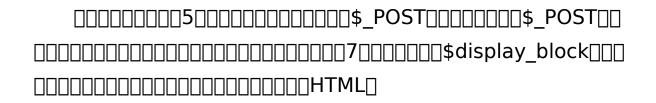


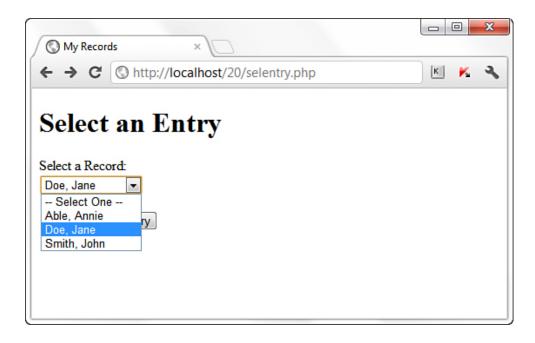
20-3 0000000

20.5

____20.4 _____selentry.php

```
1:
   <?php
   include 'ch20_include.php';
3:
   doDB();
4:
5:
   if (!$_POST) {
6:
        //haven't seen the selection form, so show it
7:
        $display_block = "<h1>Select an Entry</h1>";
8:
9:
        //get parts of records
10:
        $get_list_sql = "SELECT id,
11:
                      {\tt CONCAT\_WS(', ', l\_name, f\_name)} \  \, {\tt AS \ display\_name}
                       FROM master_name ORDER BY l_name, f_name";
12:
13:
        $get_list_res = mysqli_query($mysqli, $get_list_sql)
14:
                       or die(mysqli_error($mysqli));
15:
16:
        if (mysqli_num_rows($get_list_res) < 1) {</pre>
17:
             //no records
18:
             $display_block .= "<em>Sorry, no records to select!</em>";
19:
20:
        } else {
             //has records, so get results and print in a form
21:
22:
             $display block .= "
             <form method=\"post\" action=\"".$_SERVER['PHP_SELF']."\">
23:
             <label for=\"sel_id\">Select a Record:</label><br/>
24:
25:
             <select id="sel_id\" name=\"sel_id\" required=\"required\">
             <option value=\"\">-- Select One --</option>";
26:
27:
28:
            while ($recs = mysqli_fetch_array($get_list_res)) {
                 $id = $recs['id'];
29:
                   $display_name = stripslashes($recs['display_name']);
30:
31:
                   $display_block .=
32:
                   "<option value=\"".$id."\">".$display_name."</option>";
33:
              }
34:
35:
              $display block .= "
36:
              </select>
              <button type=\"submit\" name=\"submit\"</pre>
37:
                    value=\"view\">View Selected Entry\"></button>
38:
39:
              </form>";
40:
41:
          //free result
42:
          mysqli free result($get list res);
    \squareaddentry.php\square
```





| [20-4 [] [] [] [] |
|---------------------|
|---------------------|

| ifelseelse | |
|------------|----------------|
| 20 | .4selentry.php |

```
43:
    } else if ($ POST) {
44:
         //check for required fields
45:
         if ($ POST['sel id'] == "")
46:
              header("Location: selentry.php");
47:
              exit:
48:
         }
49:
50:
         //create safe version of ID
51:
         $safe id = mysqli real escape string($mysqli, $ POST['sel id']);52:
52:
53:
         //get master info
54:
         $get_master_sql = "SELECT concat_ws(' ',f_name,l_name) as display_name
                            FROM master name WHERE id = '".$safe id."'";
55:
56:
         $get master res = mysqli query($mysqli, $get master sql)
57:
                           or die(mysqli_error($mysqli));
58:
59:
         while ($name_info = mysqli_fetch_array($get_master_res)) {
60:
             $display name = stripslashes($name info['display name']);
61:
         }
62:
63:
         $display_block = "<h1>Showing Record for ".$display_name."</h1>";
64:
         //free result
65:
66:
         mysqli_free_result($get_master_res);
67:
68:
         //get all addresses
         $get addresses_sql = "SELECT address, city, state, zipcode, type FROM
69:
                              address WHERE master id = '".$safe id."'";
70:
         $get addresses res = mysqli query($mysqli, $get addresses sql)
71:
72:
                             or die(mysqli error($mysqli));
73:
74:
         if (mysqli_num_rows($get_addresses_res) > 0) {
75:
             $display block .= "<strong>Addresses:</strong><br/>
76:
77:
78:
              while ($add_info = mysqli_fetch_array($get_addresses_res)) {
79:
                  address = stripslashes($add info['address']);
80:
                  $city = stripslashes($add info['city']);
81:
                  $state = stripslashes($add info['state']);
82:
                  $zipcode = stripslashes($add info['zipcode']);
83:
                  $address type = $add info['type'];
84:
85:
                  $display_block .= "$address $city $state $zipcode
86:
                                      ($address type)";
87:
88:
              $display block .= "";
89:
         }
90:
         //free result
91:
         mysqli free result($get addresses res);
```

| _43ifelseelse |
|---|
| 45\$_POST ['sel_id'] |
| $master_name \verb O O O O O O O O O O O O O O O O O $ |
| |
| \$POST["sel_id"]51 |
| [69][[89][[]]address[[]][[]][]][]]address[[]][][]][]]address[[][][][][][][][][][][][][][][][][][] |
| |
| 20.4selentry.php |

```
92:
         //get all tel
93:
         $get tel sql = "SELECT tel number, type FROM telephone WHERE
94:
                         master_id = '".$safe_id."'";
95:
         $get_tel_res = mysqli_query($mysqli, $get_tel_sql)
96:
                        or die(mysqli_error($mysqli));
97:
98:
         if (mysqli num rows($get tel res) > 0) {
             $display block .= "<strong>Telephone:</strong><br/>
99:
100:
             ";
101:
102:
             while ($tel_info = mysqli_fetch_array($get_tel_res)) {
103:
                 $tel_number = stripslashes($tel_info['tel_number']);
                 $tel type = $tel info['type'];
104:
105:
                 $display_block .= "$tel_number ($tel_type)";
106:
107:
             $display block .= "";
108:
109:
         }
110:
         //free result
111:
         mysqli_free_result($get_tel_res);
112:
113:
         //get all fax
         $get_fax_sql = "SELECT fax_number, type FROM fax WHERE
114:
                         master_id = '".$safe_id."'";
115:
116:
         $get_fax_res = mysqli_query($mysqli, $get_fax_sql)
117:
                        or die(mysqli_error($mysqli));
118:
119:
         if (mysqli_num_rows($get_fax_res) > 0) {
120:
             $display block .= "<strong>Fax:</strong><br/>
121:
             ";
122:
123:
             while ($fax_info = mysqli_fetch_array($get_fax_res)) {
124:
                 $fax_number = stripslashes($fax_info['fax_number']);
125:
                 $fax type = $fax info['type'];
126:
                 $display_block .= "$fax_number ($fax_type)";
127:
128:
              }
129:
               $display_block .= "";
130:
131:
         //free result
132:
         mysqli_free_result($get_fax_res);
133:
134:
         //get all email
135:
         $get_email_sql = "SELECT email, type FROM email WHERE
136:
                           master id = '".$safe id."'";
137:
         $get_email_res = mysqli_query($mysqli, $get_email_sql)
138:
                          or die(mysqli_error($mysqli));
139:
         if (mysqli num rows($get email res) > 0) {
140:
              $display block .= "<strong>Email:</strong><br/>
              ";
141:
142:
143:
             while ($email_info = mysqli_fetch_array($get_email_res)) {
144:
                  $email = stripslashes($email info['email']);
145:
                  $email_type = $email_info['type'];
146:
147:
                  $display_block .= "$email ($email_type)";
```

```
148:
              }
149:
              $display_block .= "";
150:
151:
         //free result
152:
         mysqli_free_result($get_email_res);
153:
154:
         //get personal note
155:
         $get notes sql = "SELECT note FROM personal notes WHERE
156:
                           master_id = '".$safe_id."'";
157:
         $get_notes_res = mysqli_query($mysqli, $get_notes_sql)
158:
                          or die(mysqli_error($mysqli));
159:
160:
         if (mysqli_num_rows($get_notes_res) == 1) {
161:
             while ($note_info = mysqli_fetch_array($get_notes_res)) {
162:
                 $note = nl2br(stripslashes($note info['note']));
163:
164:
             $display_block .= "<strong>Personal Notes:</strong><br/>
165:
             $note";
166:
167:
         //free result
168:
         mysqli_free_result($get_notes_res);
```

____20.4 ______selentry.php_____

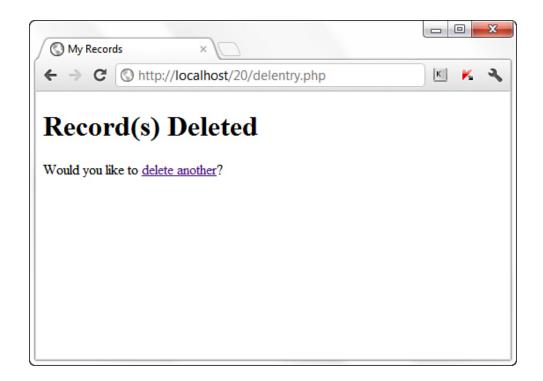
```
169:
        $display block .= "<br/>
        170:
171:
        <a href=\"".$_SERVER['PHP_SELF']."\">select another</a>";
172: }
173: //close connection to MySQL
174: mysqli_close($mysqli);
175: ?>
176: <!DOCTYPE html>
177: <html>
178: <head>
179: <title>My Records</title>
180: </head>
181: <body>
182: <?php echo $display_block; ?>
183: </body>
184: </html>
```



| | | email[|]Email | |
|-----|--|--------------|--------|--|
| ППП | | וחחחחחחחחחחח | | |

20.6

```
43: } else if ($ POST) {
44:
        //check for required fields
45:
        if ($ POST['sel_id'] == "") {
46:
            header("Location: delentry.php");
47:
            exit;
48:
49:
50:
      //create safe version of ID
51:
      $safe_id = mysqli_real_escape_string($mysqli, $_POST['sel_id']);
52:
53:
       //issue queries
54:
       $del_master_sql = "DELETE FROM master_name WHERE
                          id = '".$safe id."'";
55:
56:
       $del_master_res = mysqli_query($mysqli, $del_master_sql)
57:
                         or die(mysqli_error($mysqli));
58:
59:
       $del_address_sql = "DELETE FROM address WHERE
60:
                           id = '".$safe id."'";
61:
       $del address res = mysqli query($mysqli, $del address sql)
62:
                          or die(mysqli_error($mysqli));
63:
       $del_tel_sql = "DELETE FROM telephone WHERE id = '".$safe_id."'";
64:
65:
       $del tel res = mysqli query($mysqli, $del tel sql)
66:
                      or die(mysqli error($mysqli));
67:
68:
       $del fax sql = "DELETE FROM fax WHERE id = '".$safe id."'";
69:
       $del_fax_res = mysqli_query($mysqli, $del_fax_sql)
70:
                      or die(mysqli error($mysqli));
71:
72:
       $del email sql = "DELETE FROM email WHERE id = '".$safe id."'";
73:
       $del_email_res = mysqli_query($mysqli, $del_email_sql)
74:
                        or die(mysqli error($mysqli));
75:
76:
       $del_note_sql = "DELETE FROM personal_notes WHERE
77:
                        id = '".$safe id."'";
78:
       $del_note_res = mysqli_query($mysqli, $del_note_sql)
79:
                       or die(mysqli error($mysqli));
80:
81:
       mysqli close($mysqli);
82:
83:
       $display_block = "<h1>Record(s) Deleted</h1>
84:
       Would you like to
85:
       <a href=\"".$_SERVER['PHP_SELF']."\">delete another</a>?";
86: }
87: ?>
88: <!DOCTYPE html>
89: <html>
90: <head>
91: <title>My Records</title>
92: </head>
93: <body>
94: <?php echo $display block; ?>
95: </body>
96: </html>
```



__20-6 _____

20.7

| <pre>\$display_block .= " add info select another";</pre> |
|--|
| |
| 20.3addentry.php |
| addentry.php10 |

```
<?php
include 'ch20_include.php';
doDB();
if ((!$_POST) || ($_GET['master_id'] != "")) {
   //haven't seen the form, so show it
   $display_block = "
   <form method=\"post\" action=\"".$_SERVER['PHP_SELF']."\">";
   if (isset($_GET['master_id'])) {
       //create safe version of ID
       $safe_id = mysqli_real_escape_string($mysqli, $_GET['master_id']);
       //get first, last names for display/tests validity
       $get_names_sql = "SELECT concat_ws(' ', f_name, 1_name) AS display_name
                        FROM master_name WHERE id = '".$safe_id."'";
       $get_names_res = mysqli_query($mysqli, $get_names_sql)
                       or die(mysqli_error($mysqli));
       if (mysqli_num_rows($get_names_res) == 1) {
           while ($name_info = mysqli_fetch_array($get_names_res)) {
               $display_name = stripslashes($name_info['display_name']);
           }
       }
   }
   if (isset($display_name)) {
       $display_block .= "Adding information for
       <strong>$display_name</strong>:";
   } else {
       $display_block .= <<<END_OF_TEXT</pre>
       <fieldset>
       <legend>First/Last Names:</legend><br/>
       <input type="text" name="f_name" size="30"</pre>
            maxlength="75" required="required" />
       <input type="text" name="l_name" size="30"</pre>
            maxlength="75" required="required" />
       </fieldset>
END_OF_TEXT;
   $display_block .= <<<END_OF_TEXT</pre>
   <label for="address">Street Address:</label><br/>
____addentry.php_____
```

```
//time to add to tables, so check for required fields
if ((($_POST['f_name'] == "") || ($_POST['l_name'] == "")) &&
(!isset($_POST['master_id']))) {
    header("Location: addentry.php");
    exit;
}
//connect to database
doDB();
//create clean versions of input strings
$safe f name = mysqli real escape string($mysqli,
      $ POST['f name']);
$safe 1 name = mysqli real escape string($mysqli,
      $ POST['1 name']);
$safe address = mysqli real escape string($mysqli,
      $ POST['address']);
$safe city = mysqli real escape string($mysqli,
      $ POST['city']);
$safe state = mysqli real escape string($mysqli,
      $_POST['state']);
$safe zipcode = mysqli real escape string($mysqli,
      $ POST['zipcode']);
$safe_tel_number = mysqli_real_escape_string($mysqli,
      $ POST['tel number']);
$safe fax number = mysqli real escape string($mysqli,
      $_POST['fax_number']);
$safe email = mysqli_real_escape_string($mysqli,
      $ POST['email']);
$safe note = mysqli real escape string($mysqli,
      $ POST['note']);
if (!$ POST['master id']) {
    //add to master name table
    $add master sql = "INSERT INTO master name (date added, date modified,
                      f name, 1 name) VALUES (now(), now(),
                      '".$safe f name."', '".$safe l name."')";
    $add master res = mysqli query($mysqli, $add master sql)
                      or die(mysqli_error($mysqli));
    //get master_id for use with other tables
    $master id = mysqli insert id($mysqli);
} else {
    $master id = mysqli real escape string($mysqli, $ POST['master id']);
```

 $\square\square\square\square20.6$ $\square\square$ addentry.php $\square\square$

```
<?php
    include 'ch20_include.php';
3:
    doDB();
4:
    if ((!$_POST) || ($_GET['master_id'] != "")) {
6:
        //haven't seen the form, so show it
7:
        $display block = "
8:
        <form method=\"post\" action=\"".$ SERVER['PHP SELF']."\">";
9:
        if (isset($ GET['master id'])) {
10:
             //create safe version of ID
11:
             $safe id = mysqli real escape string($mysqli, $ GET['master id']);
12:
             //get first, last names for display/tests validity
13:
14:
             $get_names_sql = "SELECT concat_ws(' ', f_name, l_name) AS
               display_name
15:
                                FROM master_name WHERE id = '".$safe_id."'";
16:
             $get names res = mysqli query($mysqli, $get names sql)
17:
                               or die(mysqli error($mysqli));
18:
19:
             if (mysqli num rows($get names res) == 1) {
20:
                 while ($name_info = mysqli_fetch_array($get_names_res)) {
21:
                     $display_name = stripslashes($name_info['display_name']);
22:
                 }
23:
             }
24:
         }
25:
26:
         if (isset($display_name)) {
27:
             $display block .= "Adding information for
             <strong>$display_name</strong>:";
28:
29:
         } else {
30:
             $display_block .= <<<END_OF_TEXT</pre>
                                                      <fieldset>
31:
             <legend>First/Last Names:</legend><br/>
32:
             <input type="text" name="f name" size="30"</pre>
                  maxlength="75" required="required" />
33:
             <input type="text" name="l name" size="30"</pre>
34:
35:
                  maxlength="75" required="required" />
36:
             </fieldset>
37:
     END OF TEXT;
38:
39:
         $display block .= <<<END OF TEXT
40:
         <label for="address">Street Address:</label><br/>
         <input type="text" id="address" name="address"</pre>
41:
42:
                size="30" />
43:
         <fieldset>
<legend>City/State/Zip:</legend><br/>
46:
          <input type="text" name="city" size="30" maxlength="50" />
          <input type="text" name="state" size="5" maxlength="2" />
47:
          <input type="text" name="zipcode" size="10" maxlength="10" />
48:
49:
          </fieldset>
50:
51:
          <fieldset>
          <legend>Address Type:</legend><br/>
52:
          <input type="radio" id="add_type_h" name="add_type"</pre>
53:
```

```
54:
                 value="home" checked />
55:
                 <label for="add type h">home</label>
         <input type="radio" id="add_type_w" name="add_type"
56:
                 value="work" />
57:
                 <label for="add_type_w">work</label>
58:
         <input type="radio" id="add_type_o" name="add_type"</pre>
59:
                 value="other" />
60:
                 <label for="add type o">other</label>
61:
62:
         </fieldset>
63:
64:
         <fieldset>
65:
         <legend>Telephone Number:</legend><br/>
66:
67:
         <input type="text" name="tel number" size="30" maxlength="25" />
         <input type="radio" id="tel_type_h" name="tel_type"</pre>
68:
                 value="home" checked />
69:
                 <label for="tel_type_h">home</label>
70:
         <input type="radio" id="tel_type_w" name="tel_type"</pre>
71:
72:
                 value="work" />
                 <label for="tel_type_w">work</label>
73:
         <input type="radio" id="tel_type_o" name="tel_type"</pre>
74:
                 value="other" />
75:
                 <label for="tel type o">other</label>
76:
77:
         </fieldset>
78:
79:
         <fieldset>
         <legend>Fax Number:</legend><br/>
80:
81:
         <input type="text" name="fax_number" size="30" maxlength="25" />
         <input type="radio" id="fax type_h" name="fax type"</pre>
82:
                 value="home" checked />
83:
84:
                 <label for="fax_type_h">home</label>
         <input type="radio" id="fax_type_w" name="fax_type"</pre>
85:
                 value="work" />
86:
                 <label for="fax_type_w">work</label>
87:
         <input type="radio" id="fax_type_o" name="fax_type"</pre>
88:
89:
                 value="other" />
90:
                 <label for="fax_type_o">other</label>
91:
         </fieldset>
92:
93:
         <fieldset>
94:
         <legend>Email Address:</legend><br/>>
95:
         <input type="email" name="email" size="30" maxlength="150" />
96:
         <input type="radio" id="email_type_h" name="email_type"</pre>
                 value="home" checked />
97:
98:
                 <label for="email type h">home</label>
         <input type="radio" id="email_type_w" name="email_type"</pre>
99:
                 value="work" />
100:
                 <label for="email_type_w">work</label>
101:
```

```
102:
         <input type="radio" id="email_type_o" name="email_type"</pre>
103:
                value="other" />
104:
                <label for="email_type_o">other</label>
105:
         </fieldset>
106:
107:
         <label for="note">Personal Note:</label><br/>
         <textarea id="note" name="note" cols="35"
108:
109:
                    rows="3"></textarea>
110: END OF TEXT;
         if ($_GET) {
111:
             $display_block .= "<input type=\"hidden\" name=\"master_id\"</pre>
112:
113:
                 value=\"".$_GET['master_id']."\">";
114:
115:
         $display block .= <<<END OF TEXT
         <button type="submit" name="submit"</pre>
116:
117:
                 value="send">Add Entry</button>
118:
         </form>
119: END_OF_TEXT;
120: } else if ($_POST) {
121:
         //time to add to tables, so check for required fields
122:
         if ((($_POST['f_name'] == "") || ($_POST['l_name'] == "")) &&
123:
             (!isset($ POST['master id']))) {
124:
                 header("Location: addentry.php");
125:
                 exit:
126:
         }
127:
128:
         //connect to database
129:
         doDB();
130:
         //create clean versions of input strings
131:
         $safe f name = mysqli real escape string($mysqli,
132:
               $_POST['f_name']);
133:
         $safe_l_name = mysqli_real_escape_string($mysqli,
134:
               $_POST['1_name']);
135:
         $safe address = mysqli real escape string($mysqli,
136:
               $ POST['address']);
137:
         $safe city = mysqli real escape string($mysqli,
138:
               $_POST['city']);
139:
         $safe_state = mysqli_real_escape_string($mysqli,
140:
               $ POST['state']);
141:
         $safe_zipcode = mysqli_real_escape_string($mysqli,
142:
               $ POST['zipcode']);
143:
         $safe_tel_number = mysqli_real_escape_string($mysqli,
144:
               $_POST['tel_number']);
145:
         $safe_fax_number = mysqli_real_escape_string($mysqli,
146:
               $ POST['fax number']);
147:
         $safe_email = mysqli_real_escape_string($mysqli,
               $ POST['email']);
148:
149:
         $safe note = mysqli real escape string($mysqli,
150:
               $_POST['note']);
151:
152:
         if (!$ POST['master id']) {
153:
             //add to master_name table
             $add master sql = "INSERT INTO master name (date added,
154:
               date_modified,
155:
                                f_name, l_name) VALUES (now(), now(),
                                '".$safe_f_name."', '".$safe_l_name."')";
156:
157:
             $add_master_res = mysqli_query($mysqli, $add_master_sql)
```

```
158:
                                or die(mysqli_error($mysqli));
159:
160:
             //get master_id for use with other tables
161:
             $master_id = mysqli_insert_id($mysqli);
162:
         } else {
             $master_id = mysqli_real_escape_string($mysqli,
163:
               $ POST['master id']);
164:
         }
165:
166:
        if (($_POST['address']) || ($_POST['city']) ||
            ($_POST['state']) || ($_POST['zipcode'])) {
167:
168:
            //something relevant, so add to address table
            $add_address_sql = "INSERT INTO address (master_id,
169:
                 date_added, date_modified, address, city, state.
170:
171:
                 zipcode, type) VALUES
                  ('".$master id."', now(), now(),
172:
                  '".$safe_address."', '".$safe_city."',
'".$safe_state."' , '".$safe_zipcode."'
173:
174:
175:
                  '".$_POST['add_type']."')";
176:
            $add_address_res = mysqli_query($mysqli, $add_address_sql)
177:
                 or die(mysqli_error($mysqli));
178:
        }
179:
180:
        if ($ POST['tel number']) {
181:
            //something relevant, so add to telephone table
            $add tel sql = "INSERT INTO telephone (master id, date added,
182:
                 date_modified, tel_number, type) VALUES
183:
184:
                  ('".$master_id."', now(), now(),
185:
                  '".$safe_tel_number."', '".$_POST['tel_type']."')";
186:
            $add_tel_res = mysqli_query($mysqli, $add_tel_sql)
187:
                 or die(mysqli_error($mysqli));
188:
        }
189:
190:
        if ($ POST['fax number']) {
191:
            //something relevant, so add to fax table
            $add fax sql = "INSERT INTO fax (master id, date added,
192:
                 date modified, fax_number, type) VALUES
193:
                 ('".$master_id."', now(), now(), '".$safe_fax_number."',
194:
                 '".$_POST['fax_type']."')";
195:
196:
            $add fax res = mysqli query($mysqli, $add fax sql)
197:
                 or die(mysgli error($mysgli));
198:
        if ($_POST['email']) {
199:
200:
            //something relevant, so add to email table
201:
            $add_email_sql = "INSERT INTO email (master_id, date_added,
202:
                 date modified, email, type) VALUES
                  ('".$master_id."', now(), now(), '".$safe_email."',
203:
                  '".$_POST['email_type']."')";
204:
            $add_email_res = mysqli_query($mysqli, $add_email_sql)
205:
206:
                 or die(mysqli error($mysqli));
207:
        }
208:
        if ($_POST['note']) {
209:
            //something relevant, so add to notes table
210:
211:
           $add_notes_sql = "UPDATE personal_notes set note =
                             '".$safe note."', date modified = now()
212:
```

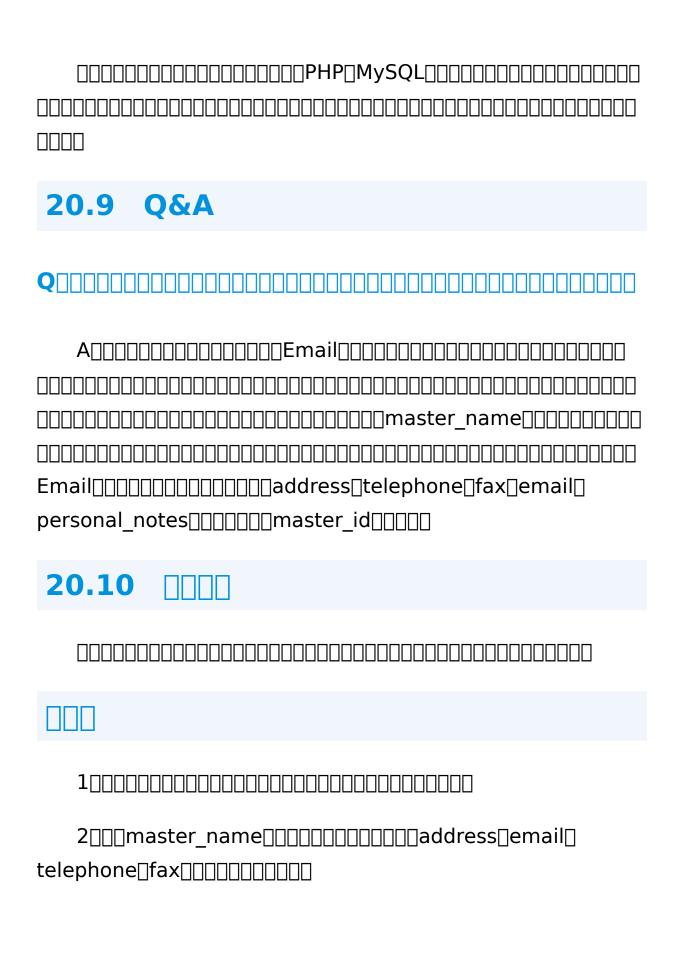
```
WHERE master_id = '".$master_id."'";
213:
214:
215:
      mysqli_close($mysqli);
216:
        $display_block = "Your entry has been added. Would you
217:
            like to <a href=\"addentry.php\">add another</a>?";
218: }
219: ?>
220: <!DOCTYPE html>
221: <head>
222: <title>Add an Entry</title>
223: </head>
224: <body>
225: <h1>Add an Entry</h1>
226: <?php echo $display block; ?>
227: </body>
228: </html>
```

____add info_____20-7

| F → C (http: | ://localhost/20/addentry2.php?master_id=3 | KI P | 4 |
|--|--|------|---|
| | · · · · · · · · · · · · · · · · · · · | | |
| Add an Ent | 1987 | | |
| Auu an Ent | il y | | |
| dding information for J | John Smith: | | |
| treet Address: | | | |
| | | | |
| City/State/Zip: | | | |
| ony, on the original of the or | | | |
| | | | |
| Address Type: | | | |
| | | | |
| | | | |
| • home • work • | other | | |
| • home • work • | other | | |
| | | | |
| Telephone Number: | other • home • work • other | | |
| | | | |
| Telephone Number: | ● home © work © other | | |
| Telephone Number: Fax Number: | | | |
| Telephone Number: | ● home © work © other | | |
| Telephone Number: Fax Number: | ● home © work © other | | |
| Telephone Number: Fax Number: | home work other home work other home work other | | |
| Telephone Number: Fax Number: | home work other home work other home work other | | |
| -Fax Number: -Email Address: | home work other home work other home work other | | |

__20-7 ____

20.8

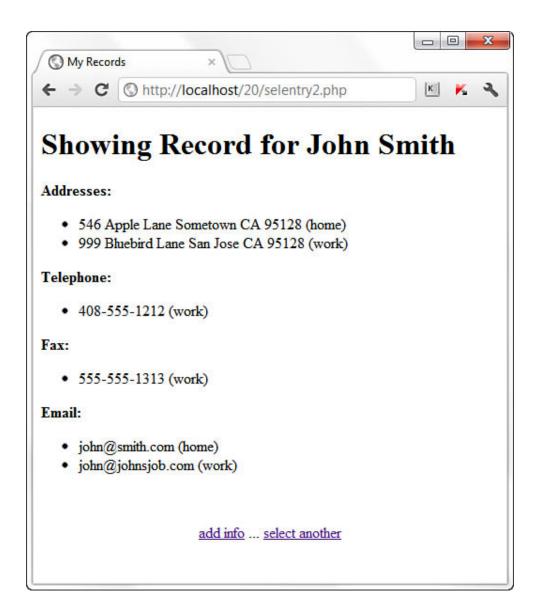


1_\$_GET____

3[master_id[]

ППП

2000addentry.php



20-8 0000000000000

- חחחחחחחחחחחחחחחח

21.1 [[[[[[[[[


```
<?php
2:
   function doDB() {
        global $mysqli;
4:
        //connect to server and select database; you may need it
        $mysqli = mysqli_connect("localhost", "joeuser",
6:
7:
            "somepass", "testDB");
8:
9:
         //if connection fails, stop script execution
10:
         if (mysqli_connect_errno()) {
11:
             printf("Connect failed: %s\n", mysqli_connect_error());
12:
             exit();
13:
         }
14: }
15: ?>
```

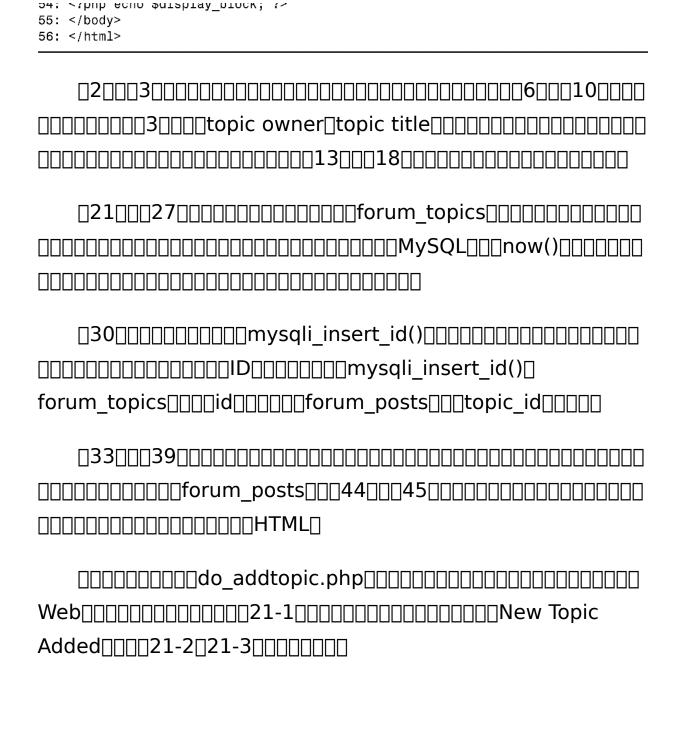


```
<!DOCTYPE html>
2: <html>
3: <head>
4: <title>Add a Topic</title>
5: </head>
6: <body>
7: <h1>Add a Topic</h1>
8: <form method="post" action="do_addtopic.php">
9:
10: <label for="topic_owner">Your Email Address:</label><br/>
11: <input type="email" id="topic owner" name="topic owner" size="40"
           maxlength="150" required="required" />
12:
13:
14: <label for="topic_title">Topic Title:</label><br/>
15: <input type="text" id="topic_title" name="topic_title" size="40"
16:
           maxlength="150" required="required" />
17: <label for="post_text">Post Text:</label><br/>
18: <textarea id="post_text" name="post_text" rows="8"
             cols="40" ></textarea>
19:
20:
21: <button type="submit" name="submit" value="submit">Add Topic</button>
22:
23: </form>
24: </body>
25: </html>
```

| Add a Topic × | |
|---|-------|
| ← → C (S) http://localhost/21/addtopic.html | K K 3 |
| | |
| Add a Topia | |
| Add a Topic | |
| Your Email Address: | |
| 1 Our Email Address. | |
| | |
| Topic Title: | |
| | |
| D. T. | |
| Post Text: | |
| | |
| | |
| | |
| | |
| | |
| | |
| Add Topic | |
| | |
| | |

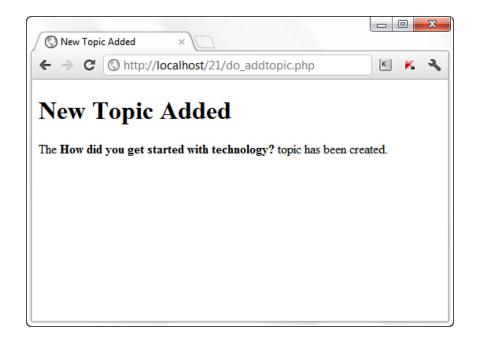
 $\label{lem:continuou} $$ POST['topic_title']_$ POST['topic_owner']____topic_id_topic_create_time____MySQL__now()___$

```
<?php
    include 'ch21_include.php';
3:
   doDB();
4:
    //check for required fields from the form
6:
    if ((!$_POST['topic_owner']) || (!$_POST['topic_title']) ||
7:
        (!$_POST['post_text'])) {
8:
        header("Location: addtopic.html");
9:
        exit;
10: }
11:
12: //create safe values for input into the database
13: $clean topic owner = mysqli real escape string($mysqli,
14:
                          $ POST['topic owner']);
15: $clean_topic_title = mysqli_real_escape_string($mysqli,
16: $_POST['topic_title']);
17: $clean_post_text = mysqli_real_escape_string($mysqli,
18:
                          $ POST['post text']);
19:
20: //create and issue the first query
21: $add topic sql = "INSERT INTO forum topics
                       (topic_title, topic_create_time, topic_owner)
23:
                       VALUES ('".$clean_topic_title ."', now(),
24:
                       '".$$clean_topic_owner."')";
25:
26: $add topic res = mysqli query($mysqli, $add topic sql)
                     or die(mysqli error($mysqli));
28:
29: //get the id of the last query
30: $topic id = mysqli insert id($mysqli);
31:
32: //create and issue the second query
33: $add_post_sql = "INSERT INTO forum_posts
                      (topic_id, post_text, post_create_time, post_owner)
                     VALUES ('".$topic_id."', '".$clean_post_text."',
35:
36:
                     now(), '".$clean topic owner."')";
37:
38: $add post res = mysqli_query($mysqli, $add_post_sql)
                    or die(mysqli_error($mysqli));
40: //close connection to MySQL
41: mysqli close($mysqli);
42:
43: //create nice message for user
44: $display block = "The <strong>".$ POST["topic title"]."</strong>
45:
        topic has been created.";
46: ?>
47: <!DOCTYPE html>
48: <html>
49: <head>
50: <title>New Topic Added</title>
51: </head>
52: <body>
53: <h1>New Topic Added</h1>
```





21-2 00000000000



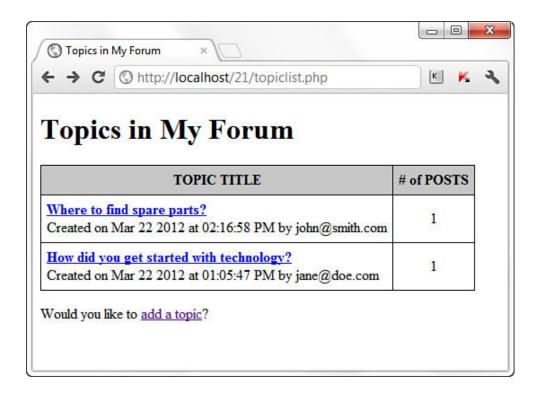
| $\Pi 21-3$ | П | П | П | П | П | ٦٢ | ПΠ | П | П | П | |
|------------|---|---|---|---|---|----|----|---|---|---|--|
| | | | | | | | | | | | |

21.4 [[[[[[[[[[

```
1:
    <?php
    include 'ch21_include.php';
3:
    doDB();
4:
5:
    //gather the topics
6:
    $get_topics_sql = "SELECT topic_id, topic_title,
7:
                      DATE_FORMAT(topic_create_time,
                                                       '%b %e %Y at %r') AS
8:
                      fmt topic create time, topic owner FROM forum topics
9:
                      ORDER BY topic create time DESC";
10: $get topics_res = mysqli_query($mysqli, $get_topics_sql)
11:
                      or die(mysqli error($mysqli));
12:
13: if (mysqli num rows($get topics res) < 1) {
       //there are no topics, so say so
       $display block = "<em>No topics exist.</em>";
16: } else {
17:
       //create the display string
18:
       $display block <<<END OF TEXT
19:
       20:
       21:
       TOPIC TITLE
22:
       # of POSTS
23:
       24: END OF TEXT;
25:
26:
       while ($topic_info = mysqli_fetch_array($get_topics_res)) {
27:
           $topic_id = $topic_info['topic_id'];
28:
           $topic title = stripslashes($topic info['topic title']);
29:
           $topic_create_time = $topic_info['fmt_topic_create_time'];
           $topic owner = stripslashes($topic_info['topic_owner']);
30:
31:
32:
           //get number of posts
33:
           $get num posts sql = "SELECT COUNT(post id) AS post count FROM
           forum_posts WHERE topic_id = '".$topic_id."'";
$get_num_posts_res = mysqli_query($mysqli, $get_num_posts_sql)
34:
35:
36:
                           or die(mysqli error($mysqli));
37:
38:
           while ($posts_info = mysqli_fetch_array($get_num_posts_res)) {
39:
               $num posts = $posts info['post count'];
40:
           }
41:
42:
           //add to display
           $display_block .= <<<END_OF_TEXT</pre>
43:
44:
           45:
           <a href="showtopic.php?topic_id=$topic_id">
46:
           <strong>$topic_title</strong></a><br/>
47:
           Created on $topic create time by $topic owner
48:
           $num posts
49:
           50: END OF TEXT;
51:
52:
        //free results
53:
        mysqli_free_result($get_topics_res);
54:
        mysqli_free_result($get_num_posts_res);
55.
```

```
ou.
56:
       //close connection to MySQL
57:
        mysqli_close($mysqli);
58:
59:
        //close up the table
60:
        $display_block .= "";
61: }
62: ?>
63: <!DOCTYPE html>
64: <html>
65: <head>
66: <title>Topics in My Forum</title>
67: <style type="text/css">
68:
        table {
69:
          border: 1px solid black;
70:
          border-collapse: collapse;
71:
        }
72:
       th {
73:
         border: 1px solid black;
          padding: 6px;
74:
75:
         font-weight: bold;
76:
         background: #ccc;
77:
     }
78:
      td {
79:
          border: 1px solid black;
80:
          padding: 6px;
81:
82:
      .num_posts_col { text-align: center; }
83: </style>
84: </head>
85: <body>
86: <h1>Topics in My Forum</h1>
87: <?php echo $display_block; ?>
88: Would you like to <a href="addtopic.html">add a topic</a>?
89: </body>
90: </html>
```

| forum_topics161818 |
|--|
| \$display_blockHTML1923 |
| |
| |
| _ 26 while |
| \$topic_info27 |
| <pre>Dominion Topic_id Dominion Topic_</pre> |
| \$topic_info\$topic_id |
| $topic_id \verb 28 30 $topic_title $topic_create_time $ |
| \$topic_ownerstripslashes() |
| |
| |
| nnaannaa an a an an an an an an an an an |
| 003300036000while000000000000000000000000000000000000 |
| |
| |
| 43\$display_block(.=) |
| 43\$display_block(.=) |
| 43\$display_block(.=)
47HTML |
| 43\$display_block(.=) |
| 43\$display_block(.=)
 |
| |
| |
| |



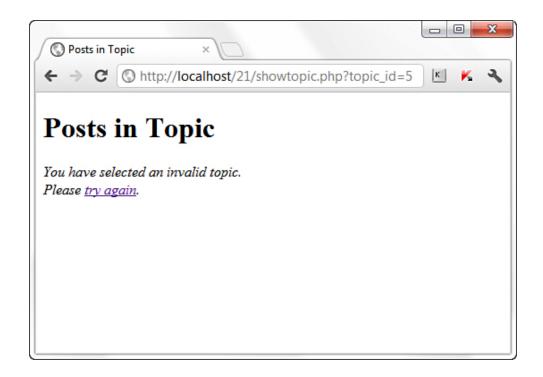
□21-4 □□□□

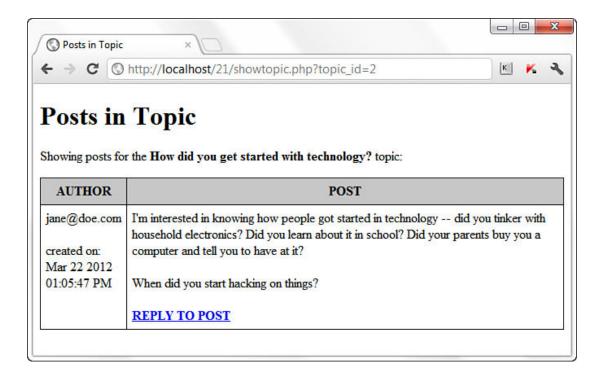
21.5

000021.5 00000000

```
1:
     <?php
2:
     include 'ch21_include.php';
     doDB();
3:
4:
5:
     //check for required info from the query string
6:
     if (!isset($ GET['topic id'])) {
7:
         header("Location: topiclist.php");
8:
         exit;
9:
     }
10:
11:
     //create safe values for use
12:
     $safe topic id = mysqli real escape string($mysqli, $ GET['topic id']);
13:
14:
    //verify the topic exists
    $verify topic sql = "SELECT topic title FROM forum topics
15:
16:
                         WHERE topic_id = '".\safe_topic_id."'";
17:
     $verify topic res =
                         mysqli query($mysqli, $verify topic sql)
18:
                         or die(mysqli error($mysqli));
19:
20:
     if (mysqli_num_rows($verify_topic_res) < 1) {</pre>
21:
        //this topic does not exist
22:
        $display block = "<em>You have selected an invalid topic.<br/>
23:
        Please <a href=\"topiclist.php\">try again</a>.</em>";
24:
     } else {
        //get the topic title
25:
26:
        while ($topic_info = mysqli_fetch_array($verify_topic_res)) {
27:
            $topic_title = stripslashes($topic_info['topic_title']);
28:
        }
29:
30:
        //gather the posts
31:
        $get_posts_sql = "SELECT post_id, post_text,
          DATE_FORMAT(post_create_time,
                         '%b %e %Y<br/>%r') AS fmt_post_create_time, post_owner
32:
33:
                          FROM forum posts
34:
                          WHERE topic_id = '".$safe_topic_id."'
                          ORDER BY post_create_time ASC";
35:
36:
        $get_posts_res = mysqli_query($mysqli, $get_posts_sql)
37:
                         or die(mysqli error($mysqli));
38:
39:
         //create the display string
40:
         $display_block = <<<END_OF_TEXT</pre>
41:
         Showing posts for the <strong>$topic title</strong> topic:
42:
         43:
         44:
         AUTHOR
45:
         POST
46:
         47:
    END_OF_TEXT;
48:
49:
         while ($posts_info = mysqli_fetch_array($get_posts_res)) {
50:
             $post_id = $posts_info['post_id'];
51:
             $post text = nl2br(stripslashes($posts info['post text']));
52:
             $post create time = $posts info['fmt post create time'];
53:
             $post owner = stripslashes($posts info['post owner']);
54:
55:
             //add to display
```

```
56:
             $display_block .= <<<END_OF_TEXT</pre>
57:
             58:
             $post_owner<br/><br/>
59:
             created on:<br/>$post create time
60:
             $post_text<br/><br/>
61:
             <a href="replytopost.php?post_id=$post_id">
62:
             <strong>REPLY TO POST</strong></a>
63:
             64: END_OF_TEXT;
65:
         }
66:
67:
         //free results
68:
         mysqli_free_result($get_posts_res);
69:
         mysqli_free_result($verify_topic_res);
70:
71:
         //close connection to MySQL
72:
         mysqli_close($mysqli);
73:
74:
         //close up the table
75:
         $display block .= "";
76:
77:
    }
?>
78: <!DOCTYPE html>
79: <html>
80: <head>
81: <title>Posts in Topic</title>
82: <style type="text/css">
        table {
83:
84:
           border: 1px solid black;
85:
           border-collapse: collapse;
86:
87:
       th {
88:
           border: 1px solid black;
89:
           padding: 6px;
90:
           font-weight: bold;
91:
           background: #ccc;
92:
        td {
93:
94:
           border: 1px solid black;
95:
           padding: 6px;
96:
           vertical-align: top;
97:
        .num posts col { text-align: center; }
98:
99:
        </style>
100: </head>
101: <body>
102: <h1>Posts in Topic</h1>
103: <?php echo $display_block; ?>
104: </body>
105: </html>
```





|
:1 11 11 11 11 11 11 11 11 11 11 11 11 1 | |
|--|--|
|
:1 11 11 11 11 11 11 11 11 11 11 11 11 1 | |
|
:1 | |
| | |

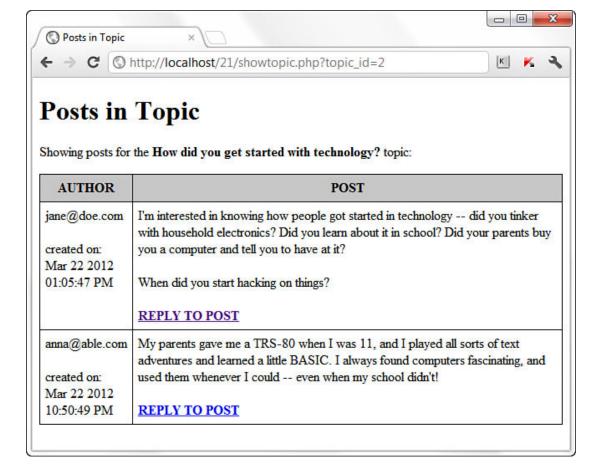
```
1: <?php
2: include 'ch21_include.php';
3: doDB();
4:
5:
    //check to see if we're showing the form or adding the post
6:
    if (!$_POST) {
7:
        // showing the form; check for required item in query string
8:
        if (!isset($_GET['post_id'])) {
            header("Location: topiclist.php");
9:
10:
            exit;
11: }
12:
13:
        //create safe values for use
14:
        $safe post id = mysqli real escape string($mysqli, $ GET['post id']);
15:
16:
        //still have to verify topic and post
17:
        $verify sql = "SELECT ft.topic id, ft.topic title FROM forum posts
18:
                         AS fp LEFT JOIN forum_topics AS ft ON fp.topic_id =
19:
                         ft.topic id WHERE fp.post id = '".$safe post id."'";
20:
21:
        $verify res = mysqli query($mysqli, $verify sql)
22:
                       or die(mysqli_error($mysqli));
23:
24:
        if (mysqli_num_rows($verify_res) < 1) {</pre>
25:
            //this post or topic does not exist
26:
            header("Location: topiclist.php");
27:
            exit;
28:
        } else {
29:
            //get the topic id and title
30:
            while($topic_info = mysqli_fetch_array($verify_res)) {
31:
                $topic_id = $topic_info['topic_id'];
32:
                $topic_title = stripslashes($topic_info['topic_title']);
33:
            }
34: ?>
35: <!DOCTYPE html>
36: <html>
37: <head>
38: <title>Post Your Reply in <?php echo $topic title: ?></title>
39: </head>
40: <body>
41: <h1>Post Your Reply in <?php echo $topic title; ?></h1>
42: <form method="post" action="<?php echo $ SERVER['PHP SELF']; ?>">
43: <label for="post_owner">Your Email Address:</label><br/>
44: <input type="email" id="post_owner" name="post_owner" size="40"
45: maxlength="150" required="required">
46: <label for="post_text">Post Text:</label><br/>
47: <textarea id="post_text" name="post_text" rows="8" cols="40"
48: required="required"></textarea>
49: <input type="hidden" name="topic id" value="<?php echo $topic id; ?>">
50: <button type="submit" name="submit" value="submit">Add Post</button>
51: </form>
52: </body>
53: </html>
54: <?php
55:
      }
56:
       //free result
       mucali face accult/fucacify acclu
```

```
3/:
       imysqii_free_resuit(\partity_res);
58:
59:
       //close connection to MySQL
60:
       mysqli close($mysqli);
61:
62: } else if ($_POST) {
        //check for required items from form
64:
        if ((!$_POST['topic_id']) || (!$_POST['post_text']) ||
        (!$_POST['post_owner'])) {
65:
66:
            header("Location: topiclist.php");
67:
            exit;
68:
        }
69:
70:
        //create safe values for use
71:
        $safe_topic_id = mysqli_real_escape_string($mysqli, $_POST['topic_id']);
72:
        $safe_post_text = mysqli_real_escape_string($mysqli, $_POST['post_text']);
73:
        $safe_post_owner = mysqli_real_escape_string($mysqli, $_POST['post_owner']);
74:
75:
        //add the post
        $add_post_sql = "INSERT INTO forum_posts (topic_id,post_text,
76:
77:
                          post_create_time,post_owner) VALUES
                          ('".$safe_topic_id."', '".$safe_post_text."', now(),'".$safe_post_owner."')";
78:
79:
80:
        $add_post_res = mysqli_query($mysqli, $add_post_sql)
81:
                          or die(mysqli_error($mysqli));
82:
83:
        //close connection to MySQL
84:
        mysqli_close($mysqli);
85:
86:
         //redirect user to topic
87:
        header("Location: showtopic.php?topic_id=".$_POST['topic_id']);
88:
         exit;
89: }
90: ?>
```

_6_____\$_POST_______6ET['post_id']____________

| \$_GET['post_id']3033 |
|--|
| topic_id_topic_titlestripslashes() |
| |
| 0004200\$_SERVER['PHP_SELF']0000000000000000004900 |
| |





| 21.7 | |
|------|--|
| | |

21.8 Q&A

| 2000replytopost.php00000000000000000000000000000000000 |
|--|
| 3 mysqli_real_escape_string() 000000000000000000000000000000000000 |
| |
| 10000000000000000000000000000000000000 |
| 2000000000Q&A000000000000000000000000000 |

- חחחחחחחחחחחח
- 0000000000

22-1

| store_categories | id, cat_title, cat_desc |
|------------------|---|
| store_items | id, cat_id, item_title, item_price, item_desc, item_image |
| store_item_size | item_id, item_size |
| store_item_color | item_id, item_color |

| DDDDDcat_titleDcat_descDDDDDDDddDDDDDcat_titleDD |
|--|
| |
| CREATE TABLE store_categories (id INT NOT NULL PRIMARY KEY AUTO_INCREMENT, cat_title VARCHAR (50) UNIQUE, cat_desc TEXT); |
| store_itemsid55 |
| cat_idstore_categories |
| |
| image |

____HTML ___

```
CREATE TABLE store items (
         id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
         cat_id INT NOT NULL,
         item_title VARCHAR (75),
         item_price FLOAT (8,2),
         item desc TEXT,
         item_image VARCHAR (50)
);
           store_item_size_store_item_color_____
CREATE TABLE store_item_size (
         id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
         item id INT NOT NULL,
         item_size VARCHAR (25)
CREATE TABLE store_item_color (
         id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
         item_id INT NOT NULL,
         item_color VARCHAR (25)
);
           NOT THE TOTAL PROPERTY OF THE 
22.1.1
                             store_categories
```

```
INSERT INTO store_categories VALUES
  ('1', 'Hats', 'Funky hats in all shapes and sizes!');
INSERT INTO store_categories VALUES ('2', 'Shirts', 'From t-shirts to sweatshirts to polo shirts and beyond.');
INSERT INTO store_categories VALUES ('3', 'Books', 'Paperback, hardback, books for school or play.');
```

22.1.2 Store items

```
INSERT INTO store_items VALUES ('1', '1', 'Baseball Hat', '12.00',
'Fancy, low-profile baseball hat.', 'baseballhat.gif');
INSERT INTO store_items VALUES ('2', '1', 'Cowboy Hat', '52.00',
'10 gallon variety', 'cowboyhat.gif');
INSERT INTO store items VALUES ('3', '1', 'Top Hat', '102.00',
'Good for costumes.', 'tophat.gif');
INSERT INTO store items VALUES ('4', '2', 'Short-Sleeved T-Shirt',
'12.00', '100% cotton, pre-shrunk.', 'sstshirt.gif');
INSERT INTO store_items VALUES ('5', '2', 'Long-Sleeved T-Shirt',
'15.00', 'Just like the short-sleeved shirt, with longer sleeves.',
'lstshirt.gif');
INSERT INTO store_items VALUES ('6', '2', 'Sweatshirt', '22.00',
'Heavy and warm.', 'sweatshirt.gif');
INSERT INTO store items VALUES ('7', '3', 'Jane\'s Self-Help Book',
'12.00', 'Jane gives advice.', 'selfhelpbook.gif');
INSERT INTO store_items VALUES ('8', '3', 'Generic Academic Book',
'35.00', 'Some required reading for school, will put you to sleep.',
'boringbook.gif');
INSERT INTO store_items VALUES ('9', '3', 'Chicago Manual of Style',
'9.99', 'Good for copywriters.', 'chicagostyle.gif');
```

22.1.3 [store_item_size[][][][]

```
INSERT INTO store_item_size (item_id, item_size) VALUES (1,'One Size Fits All');
INSERT INTO store_item_size (item_id, item_size) VALUES (2,'One Size Fits All');
INSERT INTO store_item_size (item_id, item_size) VALUES (3,'One Size Fits All');
INSERT INTO store_item_size (item_id, item_size) VALUES (4,'S');
INSERT INTO store_item_size (item_id, item_size) VALUES (4,'M');
INSERT INTO store_item_size (item_id, item_size) VALUES (4,'L');
INSERT INTO store item size (item_id, item_size) VALUES (4,'XL');
```

22.1.4 () store_item_color() () () ()

_____shirts____3____shirts_hats

```
INSERT INTO store_item_color (item_id, item_color) VALUES (1,'red');
INSERT INTO store_item_color (item_id, item_color) VALUES (1,'black');
INSERT INTO store_item_color (item_id, item_color) VALUES (1,'blue');
```

22.2

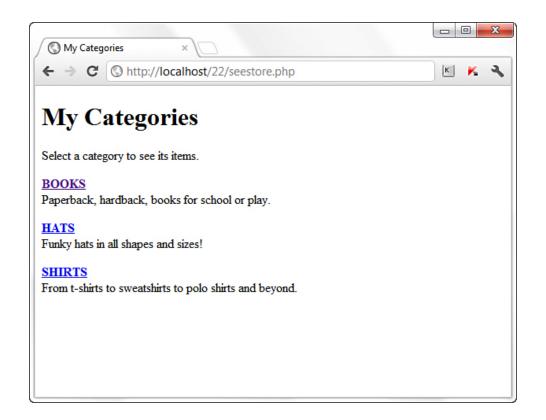
| 00000000000000000000000000000000000000 |
|--|
| |

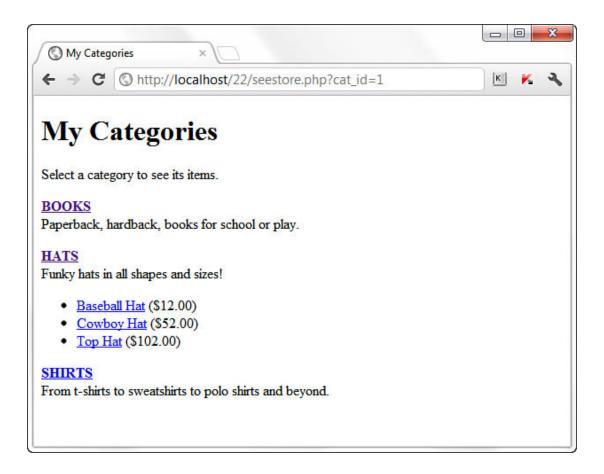
____22.1 _____

```
1:
    <?php
2:
    //connect to database
    $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
3:
4:
5:
    $display block = "<h1>My Categories</h1>
6:
    Select a category to see its items.";
7:
8:
   //show categories first
9:
    $get_cats_sql = "SELECT id, cat_title, cat_desc FROM
10:
                     store categories ORDER BY cat title";
11: $get cats res =
                     mysqli query($mysqli, $get cats sql)
12:
                     or die(mysqli error($mysqli));
13:
14: if (mysqli_num_rows($get_cats_res) < 1) {</pre>
         $display block = "<em>Sorry, no categories to browse.</em>";
15:
16: } else {
        while ($cats = mysqli fetch array($get cats res)) {
17:
18:
            $cat id = $cats['id'];
19:
            $cat title = strtoupper(stripslashes($cats['cat title']));
20:
            $cat_desc = stripslashes($cats['cat_desc']);
21:
22:
            $display block .= "<strong><a href=\"".$ SERVER['PHP SELF'].
            "?cat id=".$cat id."\">".$cat title."</a></strong><br/>"
23:
24:
            .$cat desc."";
25:
26:
            if (isset($_GET['cat_id']) && ($_GET['cat_id'] == $cat_id)) {
27:
               //create safe value for use
28:
               $safe_cat_id = mysqli_real_escape_string($mysqli,
29:
                     $_GET['cat_id']);
30:
31:
               //aet items
32:
               $get_items_sql = "SELECT id, item_title, item_price"
                                 FROM store items WHERE
33:
                                 cat id = '".$cat_id."' ORDER BY item_title";
34:
35:
               $get items res = mysqli query($mysqli, $get items sql)
36:
                                or die(mysqli error($mysqli));
37:
38:
               if (mysqli_num_rows($get_items_res) < 1) {</pre>
39:
                     $display block = "<em>Sorry, no items in this
40:
                     category.</em>";
41:
               } else {
42:
                     $display block .= "";
43:
                     while ($items = mysqli fetch array($get items res)) {
44:
                         \frac{1}{2} $item_id = \frac{1}{2} $items['id'];
                         $item_title = stripslashes($items['item_title']);
45:
46:
                         $item price = $items['item price'];
47:
48:
                         $display block .= "<a</pre>
                           href=\"showitem.php?item id=".
49:
                         $item id."\">".$item title."</a>
50:
                         (\$".$item price.")";
```

```
51:
         }
52:
         $display_block .= "";
53:
54:
       }
55:
       //free results
56:
      mysqli_free_result($get_items_res);
57:
     }
58:
   }
59:
  }
60: }
61: //free results
62: mysqli_free_result($get_cats_res);
63: //close connection to MySQL
64: mysqli_close($mysqli);
65: ?>
66: <!DOCTYPE html>
67: <html>
68: <head>
69: <title>My Categories</title>
70: </head>
71: <body>
72: <?php echo $display_block; ?>
73: </body>
74: </html>
  12000000000000001400000000000$display
____$display block___________
```

| \$_GET['cat_id'] |
|------------------|
| |
| \$display_block |
| showitem.php |



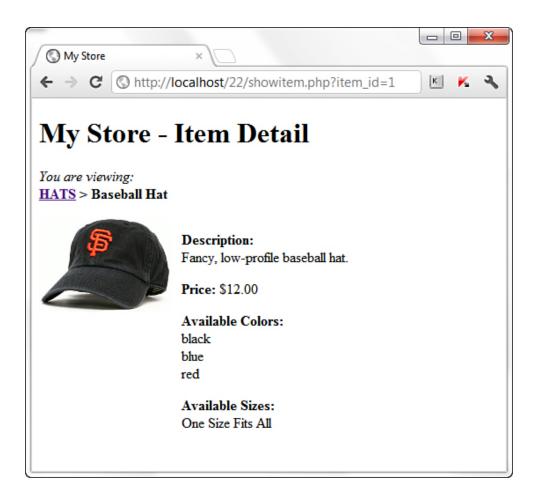


| 22.3 [] |
|----------------|
|----------------|

```
1: <?php
2:
   //connect to database
    $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
4:
   $display block = "<h1>My Store - Item Detail</h1>";
5:
6:
7:
   //create safe values for use
   $safe item_id = mysqli_real_escape_string($mysqli, $_GET['item_id']);
8:
9:
10: //validate item
11: $get_item_sql = "SELECT c.id as cat_id, c.cat_title, si.item_title,
                     si.item price, si.item desc, si.item image FROM store items
12:
13:
                     AS si LEFT JOIN store categories AS c on c.id = si.cat id
14:
                    WHERE si.id = '".$safe item id."'";
15: $get item res = mysqli query($mysqli, $get item sql)
16:
                    or die(mysqli error($mysqli));
17:
18: if (mysqli num rows($get item res) < 1) {
19:
        //invalid item
20:
        $display block .= "<em>Invalid item selection.</em>";
21: } else {
22:
       //valid item, get info
23:
       while ($item_info = mysqli_fetch_array($get_item_res)) {
24:
            $cat_id = $item_info['cat_id'];
25:
            $cat title = strtoupper(stripslashes($item info['cat title']));
26:
            $item title = stripslashes($item info['item title']);
27:
            $item price = $item info['item price'];
28:
            $item_desc = stripslashes($item_info['item_desc']);
29:
            $item image = $item info['item image'];
30:
       }
31:
32:
       //make breadcrumb trail & display of item
33:
       $display block .= <<<END OF TEXT
34:
      <em>You are viewing:</em><br/>
35:
       <strong><a href="seestore.php?cat_id=$cat_id">$cat_title</a> &gt;
         $item title/p>
       <div style="float: left;"><img src="$item_image" alt="$item title"</pre>
36:
         /></div>
       <div style="float: left; padding-left: 12px">
37:
38:
       <strong>Description:</strong><br/>$item desc
       <strong>Price:</strong> \$$item price
39:
40: END OF TEXT;
41:
42:
       //free result
43:
       mysqli free result($get item res);
44:
45:
       //get colors
46:
       $get_colors_sql = "SELECT item_color FROM store_item_color WHERE
                           item id = '".$safe item id."' ORDER BY item color";
47:
48:
       $get_colors_res = mysqli_query($mysqli, $get_colors_sql)
49:
                          or die(mysqli error($mysqli));
50:
51:
       if (mysqli num rows($get colors res) > 0) {
```

```
52:
           $display_block .= "<strong>Available Colors:</strong><br/>";
53:
           while ($colors = mysqli_fetch_array($get_colors_res)) {
54:
               item color = $colors['item color'];
55:
               $display_block .= $item_color."<br/>";
56:
           }
57:
58:
       //free result
59:
       mysqli free result($get colors res);
60:
61:
       //get sizes
62:
       $get sizes sql = "SELECT item size FROM store item size WHERE
63:
                        item_id = ".$safe_item_id." ORDER BY item_size";
64:
       $get_sizes_res = mysqli_query($mysqli, $get_sizes_sql)
65:
                        or die(mysqli_error($mysqli));
66:
67:
       if (mysqli_num_rows($get_sizes_res) > 0) {
68:
          $display block .= "<strong>Available Sizes:</strong><br/>';
69:
          while ($sizes = mysqli fetch array($get sizes res)) {
70:
              $item_size = $sizes['item_size'];
71:
              $display block .= $item size."<br/>";
72:
          }
73:
74:
       //free result
75:
       mysqli_free_result($get_sizes_res);
76:
77:
       $display_block .= "</div>";
78: }
79: //close connection to MySQL
80: mysqli_close($mysqli);
81: ?>
82: <!DOCTYPE html>
83: <html>
84: <head>
85: <title>My Store</title>
86: </head>
87: <body>
88: <?php echo $display_block; ?>
89: </body>
90: </html>
```

| _15 |
|---|
| 3435breadcrumb trail
 |
| 3639\$display_block
3630000000000000000000 |
| 77 78 \$display_block |



22.4 $\Box\Box$

______PHP_MySQL_______ ______

22.5 Q&A

| Q image |
|---|
| ADDDitem_imageDDDDDURLDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| 22.6 |
| |
| |
| 1000PHP00000000000 |
| 2000store_item_size0store_item_color |
| 3mysqli_real_escape_string() |
| |
| 1[strtoupper() |
| 20000000000000000000000000000000000000 |
| |

| 30000mysqli_real_escape_string()000000000000000000000000000000000000 |
|--|
| |
| |
| 1MySQL33 |
| 200000000000000000000000000000000000000 |
| showitem.php |
| [][][][][][][][][][][][][][][][][][][] |



```
CREATE TABLE store_shoppertrack (
  id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
  session_id VARCHAR (32),
  sel_item_id INT,
  sel_item_qty SMALLINT,
  sel item size VARCHAR(25),
  sel_item_color VARCHAR(25),
  date_added DATETIME
);
   _____id___id___session id______
___session_id______sel_*
date added
date added
   CREATE TABLE store_orders (
  id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
  order_date DATETIME,
  order_name VARCHAR (100),
  order_address VARCHAR (255),
  order_city VARCHAR (50),
  order state CHAR(2),
  order_zip VARCHAR(10),
  order tel VARCHAR(25),
  order_email VARCHAR(100),
  item_total FLOAT(6,2),
  shipping_total FLOAT(6,2),
  authorization VARCHAR (50),
  status ENUM('processed', 'pending')
);
```

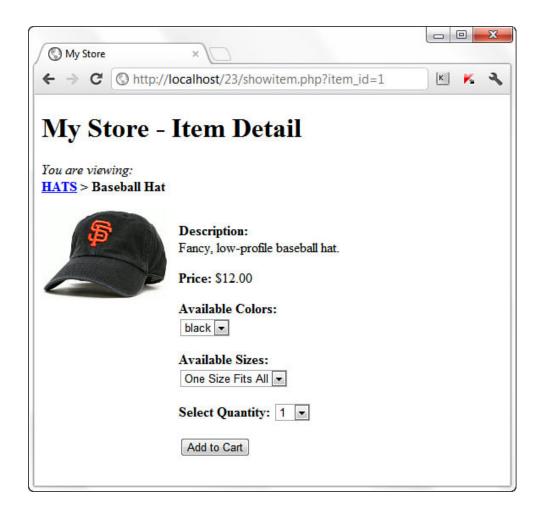
| CREATE TABLE store_orders_items (id INT NOT NULL PRIMARY KEY AUTO_INCREMENT, order_id INT, sel_item_id INT, sel_item_qty SMALLINT, sel_item_size VARCHAR(25), sel_item_color VARCHAR(25), sel_item_price FLOAT(6,2)); |
|--|
| sel_*sel_item_price |
| store_shoppertrack[]][][][][][][][][id[][][][order_id[][][][][|
| store_orders |
| sel_item_price
 |
| 23.2 |
| 22showitem.php
 |
| |

| session_start(); |
|--|
| 00000000001D00000000000000000000000000 |
| |

```
39:
       <strong>Price:</strong> \$$item price
40:
       <form method="post" action="addtocart.php">
41: END OF TEXT;
42:
43:
       //free result
44:
       mysqli free result($get item res);
45:
46:
       //get colors
47:
       $get_colors_sql = "SELECT item_color FROM store_item_color WHERE
                         item_id = '".$safe_item_id."' ORDER BY item_color";
48:
49:
       $get colors res = mysqli query($mysqli, $get colors sql)
50:
                         or die(mysqli_error($mysqli));
51:
52:
       if (mysqli num rows($get colors res) > 0) {
53:
           $display block .= "<label for=\"sel item color\">
54:
           Available Colors:</label><br/>>
           <select id=\"sel item color\" name=\"sel item color\">";
55:
56:
57:
           while ($colors = mysqli fetch array($get colors res)) {
58:
               $item color = $colors['item color'];
59:
               $display block .= "<option value=\"".$item color."\">".
60:
               $item color."
61:
           $display block .= "</select>";
62:
63:
       }
64:
65:
       //free result
       mysqli free result($get_colors_res);
66:
67:
68:
       //get sizes
69:
       $get sizes sql = "SELECT item size FROM store item size WHERE
70:
                        item id = ".$safe item id." ORDER BY item size";
71:
       $get sizes res = mysqli query($mysqli, $get sizes sql)
                        or die(mysqli error($mysqli));
72:
73:
74:
       if (mysqli_num_rows($get_sizes_res) > 0) {
75:
           $display block .= "<label for=\"sel item size\">
76:
           Available Sizes:</label><br/>>
77:
           <select id=\"sel item size\" name=\"sel item size\">";
78:
79:
           while ($sizes = mysqli_fetch_array($get_sizes_res)) {
80:
               $item_size = $sizes['item_size'];
               $display block .= "<option value=\"".$item size."\">".
81:
82:
               $item size."</option>";
83:
           }
84:
       }
85:
       $display block .= "</select>";
86:
87:
88:
       //free result
90.
       mucali fraa racul+/¢aa+ cizac rac).
```

```
υJ.
                 mandit_lice_leantr/aacr_erree_lea),
90:
91:
                 $display block .= "
92:
                 <label for=\"sel_item_qty\">Select Quantity:</label>
93:
                 <select id=\"sel_item_qty\" name=\"sel_item_qty\">";
94:
95:
                 for($i=1; $i<11; $i++) {
                          $display_block .= "<option value=\"".$i."\">".$i."</option>";
96:
97:
                 }
98:
99:
                 $display_block .= <<<END_OF_TEXT</pre>
100:
                 </select>
                 <input type="hidden" name="sel item id"</pre>
101:
                 value="$_GET[item_id]" />
102:
103:
                 <button type="submit" name="submit" value="submit">
104:
                Add to Cart</button>
105:
                 </form>
106:
                </div>
107: END_OF_TEXT;
108: }
109:
110: //close connection to MySQL
111: mysqli_close($mysqli);
112: ?>
113: <!DOCTYPE html>
114: <html>
115: <head>
116: <title>My Store</title>
117: <style type="text/css">
118:
                    label {font-weight: bold;}
119: </style>
120: </head>
121: <body>
122: <?php echo $display_block; ?>
123: </body>
124: </html>
            _____40__$display block_____<form>_
_____addtocart.php
            _____55__$display_block_____<select>_____
One of the color o
<label>nnnnnnnnnnnnnnnnnn58nnn60nnnnnn
```

| 86 <select> </select> |
|---|
| 91 97 |
| 102item_id103104 |
| 1050000000011100000MySQL00000000000000000 |
| |
| showitem.php23-1 |



023-1 00000000

____addtocart.php

23.2.1 | | | | | | | | |

```
1:
   <?php
2:
    session_start();
3:
4:
    if (isset($ POST['sel item id'])) {
5:
        //connect to database
        $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
6:
7:
8:
        //create safe values for use
        $safe sel item id = mysqli real escape string($mysqli,
9:
10:
              $_POST['sel_item_id']);
        $safe_sel_item_qty = mysqli_real_escape_string($mysqli,
11:
12:
              $_POST['sel_item_qty']);
13:
        $safe_sel_item_size = mysqli_real_escape_string($mysqli,
              $_POST['sel_item_size']);
14:
15:
        $safe_sel_item_color = mysqli_real_escape_string($mysqli,
16:
              $ POST['sel item color']);
17:
18:
        //validate item and get title and price
19:
        $get_iteminfo_sql = "SELECT item_title FROM store_items WHERE
20:
                              id = '".$safe_sel_item_id."'";
21:
        $get_iteminfo_res = mysqli_query($mysqli, $get_iteminfo_sql)
22:
                             or die(mysqli error($mysqli));
23:
24:
        if (mysqli_num_rows($get_iteminfo_res) < 1) {</pre>
25:
26:
            //free result
27:
            mysqli_free_result($get_iteminfo_res);
28:
29:
            //close connection to MySQL
30:
            mysqli close($mysqli);
31:
            //invalid id, send away
32:
33:
            header("Location: seestore.php");
34:
            exit;
35:
        } else {
36:
            //get info
37:
            while ($item_info = mysqli_fetch_array($get_iteminfo_res)) {
38:
                $item title = stripslashes($item info['item title']);
39:
            }
40:
41:
            //free result
42:
            mysqli free result($get iteminfo res);
43:
44:
            //add info to cart table
45:
            $addtocart sql = "INSERT INTO store shoppertrack"
46:
                               (session id, sel item id, sel item qty,
47:
                               sel item size, sel item color, date added)
                               VALUES ('".$_COOKIE['PHPSESSID']."',
48:
49:
                               '".$safe_sel_item_id."',
                               '".$safe_sel_item_qty."'
50:
51:
                               '".$safe_sel_item_size."'
                               '".$safe_sel_item_color."', now())";
52:
53:
            $addtocart_res = mysqli_query($mysqli, $addtocart_sql)
54:
                              or die(mysqli_error($mysqli));
55:
56:
```

```
57:
      //close connection to MySQL
58:
      mysqli close($mysqli);
59:
60:
      //redirect to showcart page
61:
      header("Location: showcart.php");
62:
      exit;
63:
   }
64:
65: } else {
66:
   //send them somewhere else
   header("Location: seestore.php");
67:
68:
   exit;
69: }
70: ?>
  shoppertrack[[[
  ____$ POST['sel item id']_____6___6_____9___
19nnn22nnnnnnnnSQLnnnnnnnnnnnnn24nnnnnnnnnn
store_shoppertrack_____45___54____
  ____showcart.php______
23.2.2
```

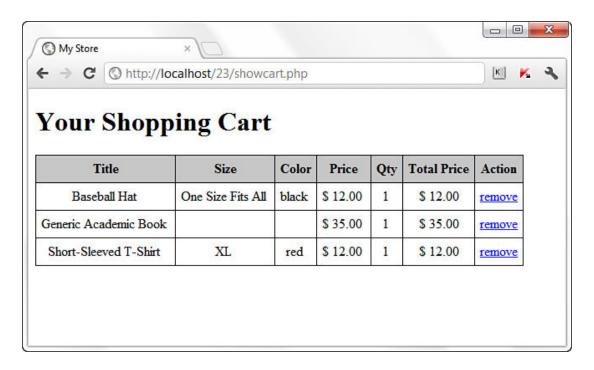
| |][[]showcart.php |
|--|------------------|
| | |

 $\square\square\square\square23.3$ showcart.php \square

```
1:
     <?php
2:
     session start();
3:
4:
     //connect to database
5:
    $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
6:
7:
    $display_block = "<h1>Your Shopping Cart</h1>";
8:
9:
    //check for cart items based on user session id
10:
    $get_cart_sql = "SELECT st.id, si.item_title, si.item_price,
                    st.sel_item_qty, st.sel_item_size, st.sel_item_color FROM
11:
12:
                    store shoppertrack AS st LEFT JOIN store items AS si ON
13:
                    si.id = st.sel item id WHERE session id =
14:
                    '".$_COOKIE['PHPSESSID']."'";
15: $get_cart_res = mysqli_query($mysqli, $get_cart_sql)
16:
                   or die(mysqli error($mysqli));
17:
18: if (mysqli_num_rows($get_cart_res) < 1) {</pre>
19:
        //print message
         $display_block .= "You have no items in your cart.
20:
21:
         Please <a href=\"seestore.php\">continue to shop</a>!";
22: } else {
23:
        //get info and build cart display
24:
        $display_block .= <<<END_OF_TEXT
25:
        26:
        27:
        Title
28:
        Size
29:
        Color
30:
        Price
31:
        Qty
32:
        Total Price
33:
        Action
        34:
35: END_OF_TEXT;
36:
37:
        while ($cart info = mysqli fetch array($get cart res)) {
38:
            $id = $cart_info['id'];
39:
            $item title = stripslashes($cart info['item title']);
40:
            $item_price = $cart_info['item_price'];
41:
            $item_qty = $cart_info['sel_item_qty'];
42:
            $item_color = $cart_info['sel_item_color'];
43:
            $item_size = $cart_info['sel_item_size'];
44:
            $total_price = sprintf("%.02f", $item_price * $item_qty);
45:
46:
            $display block .= <<<END OF TEXT;</pre>
47:
48:
            $item_title <br>
49:
            $item_size <br>
50:
            $item color <br>
51:
            \$ $item price <br>
52:
            $item_qty <br>
53:
            \$ $total price
54:
            <a href="removefromcart.php?id=$id">remove</a>
            56: END_OF_TEXT;
57:
```

```
58:
     $display_block .= "";
59: }
60: //free result
61: mysqli_free_result($get_cart_res);
62:
63: //close connection to MySQL
64: mysqli close($mysqli);
65: ?>
66: <!DOCTYPE html>
67: <html>
68: <head>
69: <title>My Store</title>
70: <style type="text/css">
71:
     table {
72:
       border: 1px solid black;
73:
       border-collapse; collapse;
74:
     }
75:
     th {
76:
       border: 1px solid black;
77:
       padding: 6px;
78:
       font-weight: bold;
79:
       background: #ccc;
80:
       text-align: center;
81:
    }
82:
    td {
83:
       border: 1px solid black;
84:
       padding: 6px;
85:
       vertical-align: top;
86:
       text-align: center;
87:
88: </style>
89: </head>
90: <body>
91: <?php echo $display block; ?>
92: </body>
93: </html>
   sel\_item\_size[]sel\_item\_color[][][][]store\_shoppertrack \ [][][][]
□□□store shoppertrack□□□□item title□item price□□□□□□
```

| store_items[]][][][][][][][][]Baseball Hat |
|---|
| |
| UUUUUUUStore_shoppertrackUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU |
| |
| 0054000000000000000000000000000000058000
00000000 |
| shoppertrackshowcart.phpstore_shoppertrack |



[]23-2

23.2.3

removefromcart.php

```
1:
   <?php
2:
    session_start();
4:
   if (isset($ GET['id'])) {
5:
        //connect to database
        $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
6:
7:
8:
        //create safe values for use
9:
        $safe id = mysqli_real_escape_string($mysqli, $_GET['id']);
10:
        $delete_item_sql = "DELETE FROM store_shoppertrack WHERE
11:
                            id = '".$safe id."' and session id =
12:
13:
                            '".$_COOKIE['PHPSESSID''";
14:
        $delete_item_res = mysqli_query($mysqli, $delete_item_sql)
15:
                           or die(mysqli_error($mysqli));
16:
17:
        //close connection to MySQL
18:
        mysqli close($mysqli);
19:
20:
       //redirect to showcart page
21:
        header("Location: showcart.php");
22:
        exit;
23: } else {
24:
        //send them somewhere else
25:
        header("Location: seestore.php");
26:
        exit;
27: }
28: ?>
```

___\$_GET['id']_____6___6____9____9______ ____14___15____11___13____SQL_______21____ showcart.php script

| |
 | | _ |
|------|------|--|---|
| 23.3 | | | |
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| 00000000000000000000000000000000000000 |
|---|
| 23.3.1 |
| order_name order_address order_city order_state order_zip order_tel order_email |
| |

23.3.2

| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
|--|
| https://www.paypal.com/webapps/mpp/merchant [|
| PHP00000000000000000000000000000000000 |
| PayPal DAuthorize. Net DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
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| 1 000000000000000000000000000000000000 |
| 2000000000 |
| 30000000000000000000000000000000000000 |
| 4store_orders |
| 5store_orders_itemmap |

23.4 \square

23.5 Q&A

23.6 | | | | | |

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| 300000000000000000000000000000000000000 |
| |
| 1 000000000000000000000000000000000000 |
| 20000000000000000000000000000000000000 |
| 3store_orders |
| |
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| 20000"00"000000000000000000000000000000 |
|---|
| |
| store_orders |
| store_orders_items[][] |

- חחחחחחחחחחחח
- 0000000000**HTML**000000000

24.1.1

| <pre>1: <?php 2: if ((!isset(\$_POST['month'])) (!isset(\$_POST['year']))) { 3: \$nowArray = getdate(); 4: \$month = \$nowArray['mon']; 5: \$year = \$nowArray['year']; 6: } else {</pre></pre> |
|--|
| 7: |
| <pre>9: } 10: \$start = mktime (12, 0, 0, \$month, 1, \$year); 11: \$firstDayArray = getdate(\$start); 12: ?></pre> |
| 00024.1000000000000000000000000000000000 |
| 2 if month year month year
 |
| 3getdate()45 |
| |

24.1.2 | | | | | | | | | | |

____24.2 ____HTML__

```
1: <?php
2: if {(!isset($ POST['month'])) || (!isset($ POST['year']))) {
       $nowArray = getdate();
4:
       $month = $nowArray['mon'];
5:
       $year = $nowArray['year'];
6: } else {
       $month = $ POST['month'];
7:
8:
       year = \POST['year'];
9: }
10: $start = mktime (12, 0, 0, $month, 1, $year);
11: $firstDayArray = getdate($start);
12: ?>
13: <!DOCTYPE html>
14: <html>
15: <head>
16: <title><?php echo "Calendar:".$firstDayArray['month']."
17: ".\firstDayArray['year']; ?></title>
18: <body>
19: <h1>Select a Month/Year Combination</h1>
20: <form method="post" action="<?php echo $ SERVER['PHP SELF']; ?>">
21: <select name="month">
22: <?php
23: $months = Array("January", "February", "March", "April", "May",
24: "June", "July", "August", "September", "October", "November", "December");
25: for ($x=1; $x <= count($months); $x++) {
26:
        echo"<option value=\"$x\"";
27:
        if ($x == $month) {
             echo " selected";
28:
29:
30:
        echo ">".$months[$x-1]."</option>";
31: }
32: ?>
33: </select>
34: <select name="year">
35: <?php
36: for ($x=1990; $x<=2020; $x++)  {
37:
        echo "<option";
38:
        if ($x == \$year) {
             echo " selected";
39:
40:
        echo ">$x</option>";
41:
42: }
43: ?>
44: </select>
45: <button type="submit" name="submit" value="submit">Go!</button>
46: </form>
47: </body>
48: </html>
```

| TITLE |
|--|
| _20PHP_ |
| |
| |
| OPTION2531 |
| |
| |
| OPTION36363636 |
| 00000000000000000000000000000000000000 |
| |
| |

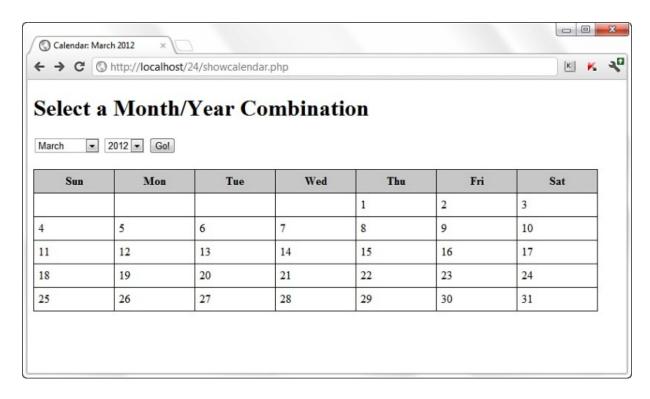


24.1.3

```
1: <?php
2: define("ADAY", (60*60*24));
3: if ((!isset($ POST['month'])) || (!isset($ POST['year']))) {
4:
       $nowArray = getdate();
5:
       $month = $nowArray['mon'];
6:
       $year = $nowArray['year'];
7:
    } else {
       $month = $ POST['month'];
8:
9:
       $year = $ POST['year'];
10: }
11: $start = mktime (12, 0, 0, $month, 1, $year);
12: $firstDayArray = getdate($start);
13: ?>
14: <!DOCTYPE html>
15: <html>
16: <head>
17: <title><?php echo "Calendar: ".$firstDayArray['month']."
18: ".\firstDayArray['year'']; ?></title>
19: <style type="text/css">
20:
       table {
21:
           border: 1px solid black;
22:
           border-collapse: collapse;
23:
       }
24:
      th {
25:
           border: 1px solid black;
26:
           padding: 6px;
27:
           font-weight: bold;
28:
           background: #ccc;
29:
      }
      td {
30:
31:
           border: 1px solid black;
32:
           padding: 6px;
33:
           vertical-align: top;
34:
           width: 100px;
35:
36: </style>
37: <body>
38: <h1>Select a Month/Year Combination</h1>
39: <form method="post" action="<?php echo $ SERVER['PHP SELF']; ?>">
40: <select name="month">
41: <?php
42: $months = Array("January", "February", "March", "April", "May",
43: "June", "July", "August", "September", "October", "November", "December");
44: for \{x=1; x \le count(\{months\}; x++) \}
45:
        echo"<option value=\"$x\"";
46:
        if ($x == $month) {
47:
            echo " selected";
48:
49:
        echo ">".$months[$x-1]."</option>";
50: }
51: ?>
```

```
52: </select>
53: <select name="year">
54: <?php
55: for ($x=1980; $x<=2010; $x++) {
56:
      echo "<option";
57:
      if ($x == $year) {
58:
         echo " selected";
59:
60:
      echo ">$x</option>";
61: }
62: ?>
63: </select>
64: <button type="submit" name="submit" value="submit">Go!</button>
65: </form>
66: <br/>
67: <?php
68: $days = Array("Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat");
69: echo "\n";
70: foreach ($days as $day) {
71:
      echo "".$day.\n";
72: }
73: for (\$count=0; \$count < (6*7); \$count++) {
74:
      $dayArray = getdate($start);
75:
      if (($count % 7) == 0) {
76:
          if ($dayArray['mon'] != $month) {
77:
             break;
78:
          } else {
79:
             echo "\n";
80:
         }
81:
     if ($count < $firstDayArray['wday'] || $dayArray['mon'] != $month) {</pre>
82:
83:
         echo " \n";
84:
     } else {
85:
         echo "".$dayArray['mday']."\n";
86:
         $start += ADAY;
87:
88: }
89: echo "";
90: ?>
91: </body>
92: </html>
    -
```

| 00730000000000000000000000000000000000 |
|--|
| for getdate() \$start |
| 75 |
| |
| 00820000if000000000000000000000000000000 |
| |



24.1.4 000000

```
calendar events
CREATE TABLE calendar_events (
  id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
  event_title VARCHAR (25),
  event shortdesc VARCHAR (255),
  event_start DATETIME
);
  JavaScript<u>□</u>□
<script type="text/javascript">
function eventWindow(url) {
 event_popupWin = window.open(url, 'event', 'resizable=yes, scrollbars=yes,
     toolbar=no,width=400,height=400');
 event_popupWin.opener = self;
</script>
  echo "<a href=\"javascript:eventWindow('event.php?m=".$month.
"&d=".$dayArray['mday']."&y=$year');\">".$dayArray['mday']."</a>
<br/><br/>".$event title."\n";
```

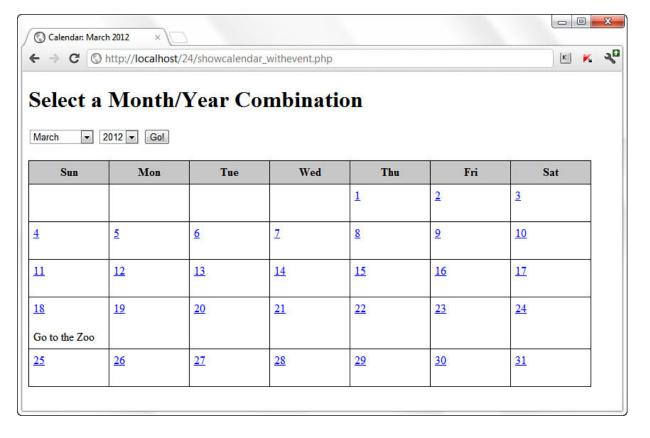
```
} else {
     $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB");
     $chkEvent_sql = "SELECT event_title FROM calendar_events WHERE
                     month(event_start) = '".$month."' AND
                     dayofmonth(event_start) = '".$dayArray['mday']."'
                     AND year(event_start) = '".$year."' ORDER BY event_start";
     $chkEvent_res = mysqli_query($\overline{m}$ysqli, $chkEvent_sql)
                     or die(mysqli_error($mysqli));
     if (mysqli_num_rows($chkEvent_res) > 0) {
          while ($ev = mysqli_fetch_array($chkEvent_res)) {
               $event_title = stripslashes($ev['event_title']);
     } else {
          $event title = "";
     }
     echo "<a href=\"javascript:eventWindow('event.php?m=".$month.
     "&d=".$dayArray['mday']."&y=$year');\">".
     $dayArray['mday']."</a><br/><br/>".$event_title."\n";
     unset($event_title);
     $start += ADAY;
}
```

showcalendar withevent.php□

```
1: <?php
2: define("ADAY", (60*60*24));
    if ((!isset($ POST['month'])) || (!isset($ POST['year']))) {
4:
        $nowArray = getdate();
5:
        $month = $nowArray['mon'];
6:
        $year = $nowArray['year'];
7:
   } else {
8:
         $month = $ POST['month'];
9:
         $year = $_POST['year'];
10: }
11: $start = mktime (12, 0, 0, $month, 1, $year);
12: $firstDayArray = getdate($start);
13: ?>
14: <!DOCTYPE html>
15:
    <html>
16: <head>
17: <title><?php echo "Calendar: ".$firstDayArray['month']." ".
18: $firstDayArray['year'] ?></title>
19: <head>
20: <style type="text/css">
21:
         table {
22:
           border: 1px solid black;
23:
           border-collapse: collapse;
         }
24:
25:
        th {
26:
           border: 1px solid black;
27:
           padding: 6px;
28:
           font-weight: bold;
29:
           background: #ccc;
30:
        }
        td {
31:
32:
            border: 1px solid black;
33:
            padding: 6px;
34:
            vertical-align: top;
35:
            width: 100px;
36:
         }
37: </style>
38:
    <script type="text/javascript">
39: function eventWindow(url) {
40:
         event_popupWin = window.open(url, 'event',
41:
         'resizable=yes,scrollbars=yes,toolbar=no,width=400,height=400');
42:
         event popupWin.opener = self;
43:
44: </script>
45:
    <body>
46:
     <h1>Select a Month/Year Combination</h1>
47: <form method="post" action="<?php echo $_SERVER['PHP_SELF']; ?>">
48: <select name="month">
49: <?php
50: $months = Array("January", "February", "March", "April", "May", "June",
     "July", "August", "September", "October", "November", "December");
51:
52: for (x=1; x \le count(months); x++) {
53:
         echo"<option value=\"$x\"";
54:
         if ($x == $month) {
55.
             acho " salactad":
```

```
JJ.
            20110
                  ourcour,
56:
        }
57:
        echo ">".$months[$x-1]."</option>";
58:
59:
    ?>
60: </select>
61: <select name="year">
62: <?php
63: for ($x=1990; $x<=2020; $x++) {
         echo "<option";
64:
         if ($x == $year) {
65:
66:
             echo " selected";
67:
         }
68:
         echo ">$x</option>";
69:
70: ?>
71: </select>
72: <button type="submit" name="submit" value="submit">Go!</button>
73: </form>
74: <br/>
75:
    <?php
76: $days = Array("Sun", "Mon", "Tue", "Wed", "Thu", "Fri", "Sat");
77:
    echo "\n";
78:
    foreach ($days as $day) {
79:
        echo "$day\n";
80:
81:
     for ($count=0; $count < (6*7); $count++) {
82:
83:
        $dayArray = getdate($start);
        if (($count % 7) == 0) {
84:
            if ($dayArray['mon'] != $month) {
85:
86:
                break;
87:
            } else {
                echo "\n";
88:
89:
```

```
90:
91:
         if ($count < $firstDayArray['wday'] || $dayArray['mon'] != $month) {</pre>
92:
             echo " \n";
93:
         } else {
94:
              $mysqli = mysqli_connect("localhost", "joeuser", "somepass",
                "testDB");
95:
              $chkEvent sql = "SELECT event title FROM calendar events WHERE
                               month(event_start) = '".$month."' AND
96:
97:
                               dayofmonth(event_start) = '".$dayArray['mday']."'
                              AND year(event_start) = '".$year."' ORDER BY
98:
                                event start";
99:
              $chkEvent_res = mysqli_query($mysqli, $chkEvent_sql)
100:
                             or die(mysqli_error($mysqli));
101:
102:
              if (mysqli_num_rows($chkEvent_res) > 0) {
103:
                   while ($ev = mysqli_fetch_array($chkEvent_res)) {
104:
                     $event_title .= stripslashes($ev['event_title']."<br/>";
105:
106:
              } else {
107:
                  $event_title = "";
108:
              }
109:
110:
              echo "<a href=\"javascript:eventWindow('event.php?m=".$month.
111:
              "&d=".$dayArray['mday']."&y=$year');\">".
              $dayArray['mday']."</a><br/>".$event_title."\n";
112:
113:
114:
              unset($event_title);
115:
              $start += ADAY;
116:
        }
117: }
118: echo "";
120: //close connection to MySQL
121: mysqli_close($mysqli);
122: ?>
123: </body>
124: </html>
```



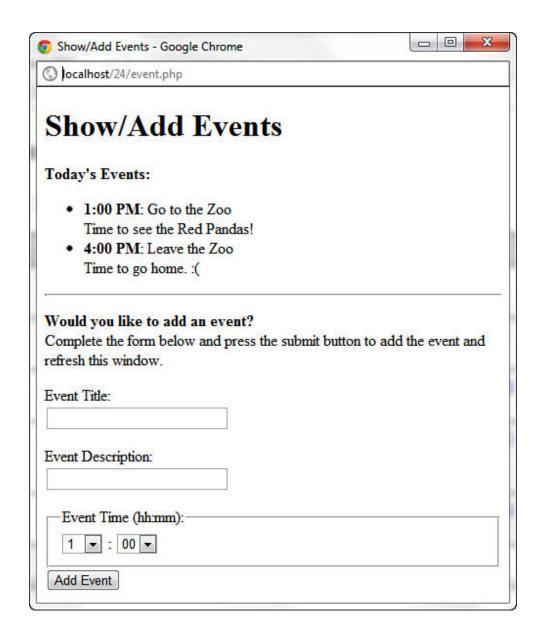
 024-3

```
1:
     <!DOCTYPE html>
2:
     <html>
3:
     <head>
4:
     <title>Show/Add Events</title>
5:
     <body>
6:
     <h1>Show/Add Events</h1>
7:
     <?php
     $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB");
8:
9:
10:
    //add any new event
11:
    if ($_POST) {
12:
13:
        //create database-safe strings
14:
        $safe m = mysgli real escape string($mysgli, $ POST['m']);
15:
        $safe d = mysqli real escape string($mysqli, $ POST['d']);
16:
        $safe y = mysqli real escape_string($mysqli, $_POST['y']);
17:
        $safe event title = mysqli real escape string($mysqli,
18:
           $ POST['event title']);
19:
        $safe event shortdesc = mysqli real escape string($mysqli,
20:
           $ POST['event shortdesc']);
21:
        $safe event time hh = mysqli real escape string($mysqli,
22:
          $ POST['event time hh']);
23:
        $safe event time mm = mysqli real escape string($mysqli,
24:
           $ POST['event time mm']);
25:
26:
        $event_date = $safe_y."-".$safe_m."-".$safe_d."
27:
           ".$safe event time hh.":".$safe event time mm.":00";
28:
29:
        $insEvent sql = "INSERT INTO calendar events (event title,
30:
                    event shortdesc, event start) VALUES
                   ('".$safe_event_title."', '".$safe_event_shortdesc."',
31:
                   '".$event_date."')";
32:
33:
         $insEvent res = mysqli query($mysqli, $insEvent sql)
34:
              or die(mysqli error($mysqli));
35:
36:
    } else {
37:
38:
         //create database-safe strings
39:
         $safe m = mysqli real escape string($mysqli, $ GET['m']);
         $safe d = mysqli_real_escape_string($mysqli, $ GET['d']);
40:
41:
         $safe y = mysqli real escape string($mysqli, $ GET['y']);
42:
     }
43:
44:
     //show events for this day
45:
     $getEvent sql = "SELECT event_title, event_shortdesc,
46:
                      date format(event start, '%1:%i %p') as fmt date
47:
                      FROM calendar events WHERE month(event start) =
                      '".$safe m."' AND dayofmonth(event start) =
48:
                      '".$safe_d."' AND year(event_start) =
49:
                      '".$safe_y."' ORDER BY event start";
50:
```

```
51:
    $getEvent_res = mysqli_query($mysqli, $getEvent_sql)
52:
         or die(mysqli error($mysqli));
53:
54: if (mysqli num rows($getEvent res) > 0) {
55:
        event txt = "";
56:
        while ($ev = @mysqli fetch array($getEvent res)) {
57:
           $event title = stripslashes($ev['event title']);
58:
           $event shortdesc = stripslashes($ev['event shortdesc']);
59:
           $fmt date = $ev['fmt date'];
           $event txt .= "<strong>".$fmt date."</strong>:
60:
                  ".$event title."<br/>".$event shortdesc."";
61:
62:
         }
63:
          $event txt .= "";
64:
         mysqli_free_result($getEvent_res);
65: } else {
         $event txt = "";
66:
67:
    }
68:
    // close connection to MySQL
69:
    mysqli close($mysqli);
70:
71: if ($event_txt != "") {
        echo "<strong>Today's Events:</strong>
72:
73:
         $event txt
74:
        <hr/>";
75: }
76:
77: // show form for adding an event
78: echo <<<END OF TEXT
79: <form method="post" action="$_SERVER[PHP_SELF]">
80: <strong>Would you like to add an event?</strong><br/>
81: Complete the form below and press the submit button to
82:
    add the event and refresh this window.
83:
```

```
<label for="event_title">Event Title:</label><br/>>
    <input type="text" id="event_title" name="event_title"</pre>
85:
86:
         size="25" maxlength="25" />
87:
88:
    <label for="event shortdesc">Event Description:</label><br/>
89:
   <input type="text" id="event_shortdesc" name="event_shortdesc"</pre>
90:
         size="25" maxlength="255" />
91: <fieldset>
92: <legend>Event Time (hh:mm):</legend>
93: <select name="event_time_hh">
94: END_OF_TEXT;
95:
96: for ($x=1; $x \le 24; $x++)  {
97:
      echo "<option value=\"$x\">$x</option>";
98: }
99:
100: echo <<<END_OF_TEXT
101: </select> :
102: <select name="event_time_mm">
103: <option value="00">00</option>
104: <option value="15">15</option>
105: <option value="30">30</option>
106: <option value="45">45</option>
107: </select>
108: </fieldset>
109: <input type="hidden" name="m" value="$safe_m">
110: <input type="hidden" name="d" value="$safe_d">
111: <input type="hidden" name="y" value="$safe_y">
112:
113: <button type="submit" name="submit" value="submit">Add Event</button>
114: </form>
115: END OF TEXT;
116: ?>
117: </body>
118: </html>
```





24.2

| 0000Web00000000000000000000000000000000 |
|--|
| |
| |
| date_pulldown |
| |
| |
| |
| <pre>1: class date_pulldown { 2: public \$name; 3: public \$timestamp = -1; 4: public \$months = array("Jan", "Feb", "Mar", "Apr", "May", "Jun", 5:</pre> |

10: 11: }

```
12:
   function setDate global( ) {
13:
      if (!$this->setDate array($GLOBALS[$this->name])) {
14:
        return $this->setDate timestamp(time());
15:
      }
16:
      return true;
17:
   }
18:
19:
   function setDate timestamp($time) {
20:
      $this->timestamp = $time;
21:
      return true;
22:
   }
23:
24:
   function setDate_array($inputdate) {
25:
      if (is_array($inputdate) &&
26:
        isset($inputdate['mon']) &&
27:
        isset($inputdate['mday']) &&
28:
        isset($inputdate['year'])) {
29:
30:
        this - timestamp = mktime(11, 59, 59,
31:
          $inputdate['mon'], $inputdate['mday'], $inputdate['year']);
32:
        return true;
33:
      }
34:
      return false;
35:
   }
  _____setDate timestamp()_____19___22____
```

| setDate_array()24353 |
|---|
| mon[]mday[]year[][][][][][][][][][][][][][][][][][][] |
| setDate_array() |
| array("mday"=> 25, "mon"=>3, "year"=> 2012); |
| getdate() |
| getdate(1208052013); |
| mon_mday_year |
| \$time() |
| setDate_global()[[][][]12[][]17[][][][][][][][][][] |
| \$namestDate_array() |
| \$timestamp |
| |
| |
| |

```
36:
    function setYearStart($year) {
37:
       $this->yearstart = $year;
38:
    }
38:
40:
    function setYearEnd($year) {
41:
       $this->yearend = $year;
42:
    }
43:
    function getYearStart() {
44:
45:
       if ($this->yearstart < 0) {
46:
          $nowarray = getdate(time());
47:
          $this->yearstart = $nowarray['year']-5;
48:
       }
49:
50:
       return $this->yearstart;
51:
    }
52:
53:
    function getYearEnd() {
54:
       if ($this->yearend < 0) {</pre>
55:
          $nowarray = getdate(time());
          $this->yearend = $nowarray['year']+5;
56:
57:
58:
       return $this->yearend;
59:
    }
```

____24.6 _____(<u>__</u>)

```
60:
        function output() {
 61:
            if ($this->timestamp < 0) {
 62:
                $this->setDate_global();
 63:
 64:
            $datearray = getdate($this->timestamp);
            $out = $this->day_select($this->name, $datearray);
 65:
 66:
            $out .= $this->month_select($this->name, $datearray);
 67:
            $out .= $this->year select($this->name, $datearray);
 68:
            return $out;
 69:
        }
 70:
 71:
        function day_select($fieldname, $datearray) {
 72:
            $out = "<select name=\"$fieldname"."['mday']\">\n";
 73:
            for ($x=1; $x<=31; $x++) {
 74:
                sout .= "<option value=\"$x\"".($datearray['mday']==($x)
                ?" selected":"").">".sprintf("%02d", $x) ."</option>\n";
 75:
 76:
 77:
            $out .= "</select>\n";
 78:
            return $out;
 79:
        }
 80:
 81:
        function month_select($fieldname, $datearray) {
 82:
            $out = "<select name=\"$fieldname"."['mon']\">\n";
            for ($x = 1; $x \le 12; $x++) {
 83:
                $out .= "<option value=\"".($x)."\"".($datearray['mon']==($x)</pre>
 84:
                ?" selected":"")."> ".this-months[x-1]."</option>\n";
 85:
 86:
 87:
            $out .= "</select>\n";
 88:
            return $out;
 89:
        }
 90:
 91:
        function year_select($fieldname, $datearray) {
            $out = "<select name=\"$fieldname"."['year']\">";
 92:
 93:
            $start = $this->getYearStart();
 94:
            $end = $this->getYearEnd();
            for (x= start; x < end; x++) {
 95:
 96:
                $out .= "<option value=\"$x\"".($datearray['year']==($x)</pre>
                ?" selected":"").">".$x."</option>\n";
 97:
 98:
            $out .= "</select>\n";
 99:
100:
            return $out;
101:
        }
102: }
```

| setDate_global()getdate() |
|--|
| |
| day_select()\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
| |
| 00000000000000000000000000000000000000 |
| 24.7 |
| □□□□24.7 □□date_pulldown□ |

```
<!DOCTYPE html>
1:
2: <html>
3: <head>
4: <title>Using the date_pulldown Class</title>
5: </head>
6: <?php
7: include("date pulldown.class.php");
8: $date1 = new date pulldown("fromdate");
9: $date2 = new date_pulldown("todate");
10: $date3 = new date_pulldown("foundingdate");
11: $date3->setYearStart("1972");
12: if (empty($foundingdate)) {
     $date3->setDate_array(array('mday'=>26, 'mon'=>4, 'year'=>1984));
13:
14: }
15: ?>
16: <body>
17: <form>
18: <strong>From:</strong><br/>
19: <?php echo $date1->output(); ?>
20:
21: <strong>To:</strong><br/>
22: <?php echo $date2->output(); ?>
23:
24: <strong>Company Founded:</strong><br/>
25: <?php echo $date3->output(); ?>
26:
27: <button type="submit" name="submit" value="submit">Submit</button>
28: </form>
29: </body>
30: </html>
   \square
```

| Using the date_pulldown Cl × | |
|--|---------|
| ← → C http://localhost/24/dateselector_withclass.ph | p 🗷 🔏 🔏 |
| From: 25 ▼ Mar ▼ 2012 ▼ | |
| To: 25 • Mar • 2012 • | |
| Company Founded: 26 Apr 1984 | |
| Submit | |
| | |

 \square 24-6 date_pulldown \square \square \square \square \square \square

| 000000000000000000000000000000000000000 | |
|---|--|

24.3

24.4 Q&A

http://www.php.net/ manual/en/ref.calendar.php [][]PHP[][] 24.5 1000000PHP0000000000 1 mktime() 2[getdate()

| $1 \ \ \ \ \ \ \ \ \ \ \ \ \ $ | × | 4 |
|--|---|---|
| | | |

- 000000001**P**0000000000000000
- [[[[]]Apache[[[[]][[]][[]][[]

____Apache

25.1 [[[[[]]]

| 25.1.1 |
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| 1000000Web0000000 |
| 2 Apache |
| 300000000000000000000000000000000000000 |
| 400000000Web0000000000000000000000000000 |
| 5 Apache |
| 00000000000000000000000000000000000000 |
| |

| 00000000000000000000000000000000000000 |
|--|
| |
| Web |
| 25.1.2 |
| OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO |
| Network Information Services NIS |
| <pre>Description Description Description</pre> |
| |
| 25.2 Apache[[[[[[[[[|
| 25.2 Apache |

| | RequireRequire group |
|----|---|
| Re | equire user joe bob |
| | |
| Re | equire group employee contractor |
| | |
| Re | equire valid-user |
| | 00000000000000000000000000000000000000 |
| | |
| | • 0000 ——00000000000000000 |
| | • 0000 ——0000000000000000 |
| | • 0000 ——0000000000 |
| | |
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| | 000000000000000000000000000000000000 |
| | |

| 25.2.1 [[[[[]]]]] |
|---|
| mod_auth Apache |
| 1 0000 |
| |
| |
| |
| admin:\$apr1\$Ug3\$jVTedbQWBKTfXsn5jK6UX/ |
| |
| web: admin joe Daniel |
| AuthUserFile AuthGroupFile DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |

| /usr/local/apache2/bin/htpasswd -c file userid |
|--|
| |
| /usr/local/apache2/bin/htpasswd -c /usr/local/apache2/conf/htusers admin |
| |
| Windows |
| htpasswd -c "C:\Program Files\Apache Software Foundation\Apache2.2\conf\htusers" admin |
| -chtpasswd |
| 00000000000000000000000000000000000000 |
| 3[[]mod_auth |
| 25.1htusers |
| |

^{1: &}lt;Directory /usr/local/apache2/htdocs/private>

^{2:} AuthType Basic

^{3:} AuthName "Private Area"

^{4:} AuthUserFile /usr/local/apache2/conf/htusers

^{5:} Require valid-user

^{6: &}lt;/Directory>

| |
_ |
|--------|-------|
| | |
| 23.2.2 |
 |
| |
 |

| Apache |
|--|
| mod_auth_dbm |
| |
| mod_auth_dbm[][][]Apache[][][][][][][]Apache[][][][] |
| enable-module=dbm |

2

htdbm -c databasename userid

htdbm -x databasename daniel

25.3 || || Apache|| **|| || || ||**

| mod_accessIP |
|--|
| 25.3.1 |
| |
| 1000IP0000/0000 |
| 00000001P000000000000 |
| Allow from 10.0.0.1 10.0.0.2 10.0.0.3 |
| |
| Deny from 10.0 |
| |
| |
| Allow from 10.0.0.0/255.255.255.0 |
| |
| 00000000100000000000000000000000000000 |

| 300000000000 |
|--|
| env= |
| BrowserMatch MSIE iexplorer Deny from env=iexplorer |
| USer-Agent |
| 4000/0000000 |
| all |
| 25.3.2 |
| Deny Mutual-Failure Deny Allow Order Deny Allow Deny Mutual-Failure Deny Allow Deny Deny Deny Deny Deny Deny Deny Deny |
| 1 Deny Allow |

| <pre>4: Deny from host.example.com 5: </pre> |
|---|
| 1: <location location="" some=""></location> 2: Order Allow,Deny 3: Allow from all |
| 25.3Allow,Deny |
| |
| |
| |
| Allow Dony Deny Deny Deny Deny Deny Deny Deny De |
| Allow Deny |
| 2 Allow Deny Allow Deny Deny Deny Deny Allow, Deny |
| |
| 1: <location private=""> 2: Order Deny,Allow 3: Deny from all 4: Allow from 10.0.0.0/255.255.255.0 example.com 5: </location> |
| 25.2 Deny Allow |
| |
| 25.2Apacheexample.com |
| Allow |
| Deny Deny Deny Deny Deny Deny Deny Deny |
| |
| Deny[Allow[Deny[Allow[Deny[Allow[|

3 Mutual-Failure

25.4 |||Apache||||||

000025.4 00000000000

- 1: <Location /restricted>
- 2: Allow from 10.0.0.0/255.255.255.0
- 3: AuthType Basic
- 4: AuthName "Intranet"
- 5: AuthUserFile /usr/local/apache2/conf/htusers
- 6: Require valid-user
- 7: Satisfy any
- 8: </Location>



25.5 || HTTP|| || || ||

10:

Deny from all

11: </LimitExcept>
12: </Directory>

```
TRACE \sqcap PATCH \sqcap PROPFIND \sqcap PROPPATCH \sqcap MKCOL \sqcap COPY \sqcap
MOVE□LOCK□ UNLOCK□
  \Pi\Pi
  http://httpd.apache.org/docs-2.2/ mod/core.html 

□Apache□
ПП
                         1: <Directory /home/*/public html>
2: AllowOverride FileInfo AuthConfig Limit
3: Options MultiViews Indexes SymLinksIfOwnerMatch IncludesNoExec
4: <Limit GET POST OPTIONS PROPFIND>
5: Order Allow, Deny
6: Allow from all
7: </Limit>
8: <LimitExcept GET POST OPTIONS PROPFIND>
9: Order Deny, Allow
```



25.6 □□cookie□□□□□

nnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnnncookien cookiennnnnnnnnnncookiennnnnnnnnnnnnnnnnnnnn 25.6.1 $\Pi\Pi$ ______MySQL_____auth users CREATE TABLE auth_users (id int NOT NULL PRIMARY KEY AUTO INCREMENT, f_name VARCHAR(50), 1 name VARCHAR(50), email VARCHAR(150), username VARCHAR(25), password VARCHAR(41)); □□□INSERT□□□auth users table□□□□□John Doe□□□□□□□□□

∏∏Email∏∏john@doe.com∏∏∏∏doe∏∏∏doepass∏



```
2:
  <html>
3: <head>
4: <title>User Login Form</title>
5:
  </head>
6: <body>
7: <h1>Login Form</h1>
8: <form method="post" action="userlogin.php">
9: <label for="username"><strong>username:</strong><br/>
10: <input type="text" id="username" name="username" /></label>
11: <label for="password"><strong>password:</strong><br/>>
12: <input type="password" id="password" name="password" /></label>
13: <button type="submit" name="submit" value="login">Login</button>
14: </form>
15: </body>
16: </html>
   _____loginform.html
_____userlogin.php
25.7∏∏
```

1:

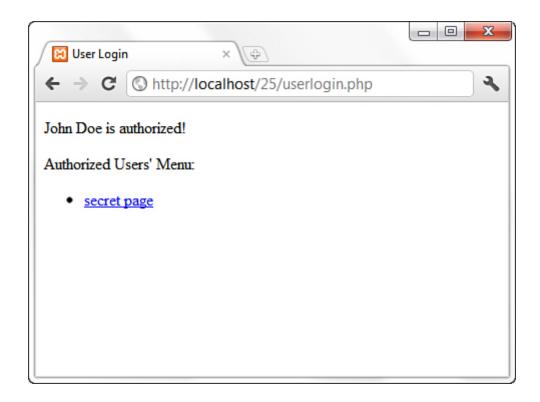
<!DOCTYPE html>

____25.7 **____**

```
1:
   <?php
2:
   //check for required fields from the form
   if ((!isset($ POST['username'])) || (!isset($ POST['password']))) {
3:
4:
       header("Location: userlogin.html");
5:
       exit;
6:
   }
7:
    //connect to server and select database
   $mysqli = mysqli connect("localhost", "joeuser", "somepass", "testDB")
10:
             or die(mysqli error());
11:
12: //use mysqli real escape string to clean the input
13: $username = mysqli real escape string($mysqli, $ POST['username']);
14: $password = mysqli real escape string($mysqli, $ POST['password']);
15:
16: //create and issue the query
17: $sql = "SELECT f name, l name FROM auth users WHERE
18:
            username = '".$username."' AND
           password = PASSWORD('".$password."')";
19:
20: $result = mysqli query($mysqli, $sql) or die(mysqli error($mysqli));
21:
22: //get the number of rows in the result set; should be 1 if a match
23: if (mysqli num rows($result) == 1) {
24:
25:
        //if authorized, get the values of f_name l_name
26:
        while ($info = mysqli fetch array($result)) {
27:
             $f name = stripslashes($info['f name']);
28:
             $1 name = stripslashes($info['l name']);
29:
        }
30:
31:
        //set authorization cookie
        setcookie("auth", "1", 0, "/", "yourdomain.com", 0);
32:
33:
34:
        //create display string
35:
        $display block = "
        ".$f name." ".$l name." is authorized!
36:
        Authorized Users' Menu:
37:
38:
        <l
        <a href=\"secretpage.php\">secret page</a>
39:
40:
        ":
41: } else {
42:
        //redirect back to login form if not authorized
43:
        header("Location: userlogin.html");
44:
        exit;
45: }
46: //close connection to MySQL
47: mysqli close($mysqli);
48: ?>
```

```
49: <!DOCTYPE html>
50: <html>
51: <head>
52: <title>User Login</title>
53: </head>
54: <body>
55: <?php echo $display_block; ?>
56: </body>
57: </html>
 domain.com"
0300000000000000000000000$ POST['username']0
$ POST['password']_________
____1__1___1____26___29__mysqli fetch array()_____
nnnnonnnnnwebnnnnnncookiennnnnnnnnnn
-
\Pi\Pi
```

____John Doe_________________25-1

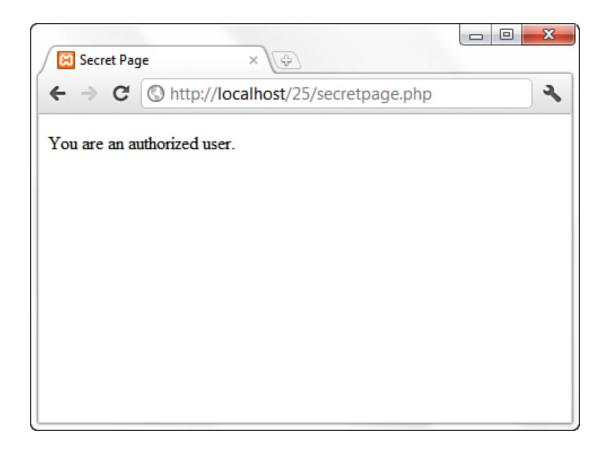


25.6.3 ∏⊓auth cookie

□□□□25.8 □□auth cookie

```
1: <?php
2: if ($_COOKIE['auth'] == "1") {
         $display_block = "You are an authorized user.";
4: } else {
        //redirect back to login form if not authorized
       header("Location: userlogin.html");
6:
7:
        exit;
8: }
9. ?>
10: <!DOCTYPE html>
11: <html>
12: <head>
13: <title>Secret Page</title>
14: </head>
15: <body>
16: <?php echo $display block; ?>
17: </body>
18: </html>
```

25-2



| □25-2 | | page |
|-------|--|------|
|-------|--|------|

| secretpage.php | |
|----------------|--|
| | |

25.7 □□

25.8 Q&A

Q____UUUUUUNIX______/etc/passwd______

Q____**Web**____

| yourdomain.com[]www.yourdomain.com[][][][]Web[][][] |
|---|
| yourdomain.com |
| www.yourdomain.com |
| |
| Q_cookie |
| Acookiecookie |
| |
| |
| |
| |
| 25.9 |
| |
| |
| 100000000000000000000000000000000000000 |
| 2HTTP |
| 3cookie_ |
| |
| |

| 10000000000000000000000000000000000000 |
|---|
| 20000000000000000000000000000000000000 |
| 3 setcookie() cookie header() |
| |
| PHP |

26.1 |||Apache||||||

3000000——00000000

26.1.1 DDDDD

26-1 000000

| 00000 | |
|----------------------|---|
| 0000000 | |
| %a | 0000001P00 |
| %h | |
| %l | 000000identd00000000000000000000000000000000000 |
| %u | |
| | |
| A% | 0000001P00 |
| %D | |
| %
{env_variable}e | env_variable |
| %{time_format}t | |
| %T | |
| 1 | I |

| %v | |
|---------------------|---|
| %V | UseCanonicalName |
| %X | 000000000000X0000000000000000000000000 |
| 000000 | |
| %
{cookie_name}C | |
| %H | |
| %m | GET_POST_PUT |
| %
{header_name}i | 00000000000000000000000000000000000000 |
| %r | |
| %q | □□□□□□□□□□a ?□□□ |
| %U | |
| %y | 00HTTP000000000000000000000000000000000 |
| %b∏%B | 00000000000000000000000000000000000000 |
| %f | |
| %t | |
| % {header_name}o | |
| %>s | Apache |

| Common Log Forma CLF | |
|-----------------------|----------|
| | |



[&]quot;%h %l %u %t \"%r\" %>s %b"

| 10.0.0.1 [19/Jan/2012:17:32:43 -0500] "GET / HTTP/1.0" 200 1101 |
|--|
| LogFormat |
| |
| LogFormat "%h %l %u %t \"%r\" %>s %b" common |
| LogFormat |
| 1 HostNameLookups C |
| |
| HostNameLookups Off Off Off Odouble Odouble Off Odouble O |
| |





26.1.3 TransferLog CustomLog Cust Apache rotatelogs rotatelog rotatelogs rotatelog r ____Apache______UNIX____ ∏nobody∏www∏ **26.2 |||Apache||||||** ____Apache______Apache_______Apache

26.2.1 000000000

Windows

| error.log |
|--|
| ErrorLog logs/my_error_log |
| 26.2.2 |
| Apache |
| ErrorLog " /usr/local/bin/someprogram" |
| 26.2.3 syslog[[[[[[[[[|
| UNIX UNIX UNIX |
| ErrorLog syslog:local6 |
| 26.2.4 LogLevel |
| Apache |
| 26-2 LogLevel Apache |

||26-2 Apache|||||||LogLevel|||

| emerg | Emergencies[][| Child cannot open lock file. Exiting |
|--------|----------------|--|
| alert | 0000000 | getpwuid: couldn't determine user name from uid |
| crit | | socket: Failed to get a socket, exiting child |
| error | | Premature end of script headers |
| warn | | Child process 1234 did not exit, sending another |
| | | SIGHUP |
| notice | 000000 | httpd: caught SIGBUS, attempting to dump core in |
| info | | Server seems busy, (You may need to increase StartServers, or Min/MaxSpareServers) |
| debug | 00000 | Opening config file |

26.3 || || Apache|| **||**

Apache 26.3.1 logresolve logresolve < access.log > resolved.log 26.3.2 Apache □□□UNIX□□rotatelogs □□□Windows □□

rotatelogs.exe

| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
|---|
| TransferLog " bin/rotatelogs /var/logs/apachelog 86400" |
| |
| |
| |
| TransferLog " bin/rotatelogs /var/logs/apachelog%m_%d_%y 86400" |
| |
| |
| 26.3.3 |
| |
| <pre></pre> |

26.3.4

26.4.1 DDDDD

_____MySQL______ access_tracker_____ID___ID________

```
CREATE TABLE access_tracker (
    id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    page_title VARCHAR(50),
    user_agent TEXT,
    date_accessed DATE
);
```

26.4.2 | | | | | PHP | | | |

```
1: <?php
2: //set up static variables
3: $page_title = "sample page A";
4: $user_agent = getenv('HTTP_USER_AGENT');
5:
6:
   //connect to server and select database
7:
   $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB")
8:
              or die(mysql_error());
9:
10: //create and issue query
11: $sql = "INSERT INTO access_tracker (page_title,user_agent,date_accessed)
            VALUES ('$page_title', '$user_agent', now())";
13: $result = mysqli_query($mysqli, $sql) or die(mysqli_error($mysqli));
14:
15: //close connection to MySQL
16: mysqli_close($mysqli);
17: ?>
```

\$page title

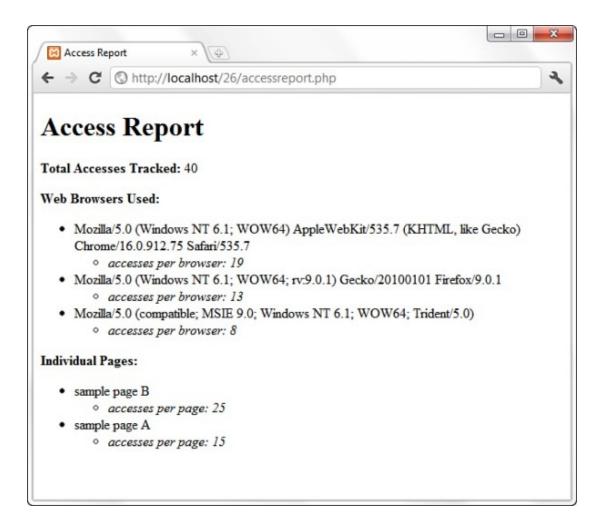
____26.2 __HTML__

| 1: html 2: <html> 3: <head> 4: <title>Sample Page A</title> 5: </head> 6: <body> 7: <h1>Sample Page A</h1> 8: blah blah blah.</body></html> |
|---|
| 9: 10: |
| \$page_title |
| 26.4.3 |
| _access_tracker |
| |

```
1:
     <?php
2:
     //connect to server and select database
3:
     $mysqli = mysqli_connect("localhost", "joeuser", "somepass", "testDB")
4:
               or die(mysqli error());
5:
     //issue query and select results for counts
6:
7:
     $count_sql = "SELECT count(page_title) AS p_count FROM access_tracker";
8:
     $count res = mysqli query($mysqli, $count sql) or
       die(mysqli error($mysqli));
9:
     while ($count info = mysqli fetch array($count res)) {
10:
         $all count = $count info['p count'];
11:
12:
13:
14:
     //issue query and select results for user agents
15:
     $user agent sql = "SELECT DISTINCT user agent, count(user agent) AS
                        ua_count FROM access_tracker GROUP BY user agent
16:
17:
                        ORDER BY ua_count desc";
18:
     $user agent res = mysqli query($mysqli, $user agent sql)
19:
                       or die(mysgli error($mysgli));
20:
21:
    //start user agent display block
22:
    $user agent block = "";
23:
24:
    //loop through user agent results
25:
    while ($row ua = mysqli fetch array($user agent res)) {
26:
        $user_agent = $row_ua['user_agent'];
27:
        $user agent count = $row ua['ua count'];
        $user_agent block .= "
28:
29:
        ".$user agent."
30:
31:
           <em>accesses per browser: ".$user agent count."</em>
32:
           33:
        ";
34:
     }
35:
36:
     //finish up the user agent block
37:
     $user agent block .= "";
38:
39:
     //issue query and select results for pages
40:
     $page title sql = "SELECT DISTINCT page title, count(page title) AS
41:
                        pt_count FROM access_trackér GROUP By page_title
42:
                        ORDER BY pt count desc";
43:
     $page title res = mysqli query($mysqli, $page title sql)
44:
                       or die(mysqli_error($mysqli));
45:
46:
    //start page title display block
47:
     $page_title_block = "";
48:
49:
    //loop through results
     while /those of - mucali fatch appay/those title post/ (
```

```
οω. white (φπον_ρι - mysqrt_reton_annay(φραge_true_mes)) {
51:
     $page_title = $row_pt['page_title'];
52:
     $page_count = $row_pt['pt_count'];
53:
     $page_title_block .= "
54:
    ".$page title."
55:
      <l
      <em>accesses per page: ".$page_count."</em>
56:
57:
      58:
    ";
59: }
60:
61:
  //finish up the page title block
62:
  $page_title_block .= "";
63:
64:
  //close connection to MySQL
65:
  mysqli_close($mysqli);
66:
  ?>
67: <!DOCTYPE html>
68: <html>
69: <head>
70: <title>Access Report</title>
71: </head>
72: <body>
73: <h1>Access Report</h1>
74: <strong>Total Accesses Tracked:</strong>
75: <?php echo "$all_count"; ?>
76: <strong>Web Browsers Used:</strong>
77: <?php echo "$user_agent_block"; ?>
78: <strong>Individual Pages:</strong>
79: <?php echo "$page_title_block"; ?>
80: </body>
81: </html>
   \square 40
_____accessreport.php______Web___
-
```





26.5 []

| Apache |
|--|
| MySQL |
| 26.6 Q&A |
| Q |
| A0000000000000000000000000000000000000 |
| 26.7 [][] |
| |
| |
| 1000000000000Web0000000000 |
| 20000000000000 |
| 3ApacheHostNameLookupsoff |

| SetEnvIf Remote_Addr 10\.0\.0\. intranet CustomLog logs/access_log "%h %l %u %t \"%r\" %>s %b" !intranet 200000000000000000000000000000000000 | |
|--|--|
| SetEnvIf Remote_Addr 10\.0\.0\. intranet CustomLog logs/access_log "%h %l %u %t \"%r\" %>s %b" !intranet 200000000000000000000000000000000000 | |
| | SetEnvIf directive: SetEnvIf Remote_Addr 10\.0\.0\. intranet CustomLog logs/access_log "%h %l %u %t \"%r\" %>s %b" !intranet |
| CustomLog logs/access_log common env=!image 3000HostNameLookupson000000000000000000000000000000000000 | 200000000000000
00000000000000 |
| | SetEnvIf Request_URI "(\.gif \.jpeg)\$" image
CustomLog logs/access_log common env=!image
CustomLog logs/images_log common env=image |
| 200000000000000000000000000000000000000 | |
| 200000000000000000000000000000000000000 | |
| | 1000000000000PHP00000000000000000000000 |
| | 200000000000000000000000000000000000000 |

World Wide Web______World Wide_____PHP

MySQL______Web______

27.1 0000000

27.2 || || || ||



27.3 □□□□

27.3.1 Apache □□□□□□

DApache

27.3.2 PHP

| enable-mbstring=LANG | | | | | | |
|--|--|--|--|--|--|--|
| LANGjacncn | | | | | | |
| enable-mbstring=all | | | | | | |
| mbstring PHP | | | | | | |
| 00000000000000000000000000000000000000 | | | | | | |
| 27.3.3 MySQL | | | | | | |
| | | | | | | |
| 27.4 [][][][][][] | | | | | | |
| 00000000000000000000000000000000000000 | | | | | | |

- 000000

000027.1 000000

```
1:
     <?php
2:
     if ((!isset($ SESSION['lang'])) || (!isset($ GET['lang']))) {
3:
         $_SESSION['lang'] = "en";
4:
         $currLang = "en";
5:
     } else {
6:
         $currLang = $ GET['lang'];
7:
         $_SESSION['lang'] = $currLang;
8:
9:
10:
     switch($currLang) {
         case "en":
11:
12:
              define("CHARSET","ISO-8859-1");
13:
              define("LANGCODE", "en");
14:
         break;
15:
         case "de":
16:
17:
              define("CHARSET","ISO-8859-1");
              define("LANGCODE", "de");
18:
19:
         break;
20:
21:
         case "ja":
              define("CHARSET", "UTF-8");
22:
23:
              define("LANGCODE", "ja");
24:
         break;
25:
26:
         default:
             define("CHARSET", "ISO-8859-1");
27:
28:
             define("LANGCODE", "en");
29:
         break;
30: }
31:
32:
    header("Content-Type: text/html;charset=".CHARSET);
33:
     header("Content-Language: ".LANGCODE);
34: ?>
```

| \$currLang66 |
|--|
| |
| 0100000switch000000case000000000000000CHARSET |
| <pre>□LANGCODE</pre> <pre>[]</pre> <pre>33</pre> <pre>[]</pre> <pre>[]</pre> <pre>Content-type</pre> <pre>[]</pre> <pre>Content-type</pre> <pre>[]</pre> |
| language |
| |
| |
| |
| LANGCODE |
| |
| |
| |
| |
| |
| |
| - |

____27.2 _____

```
1:
    <?php
2:
    function defineStrings() {
      switch($_SESSION['lang']) {
3:
          case "en":
4:
              define("WELCOME TXT","Welcome!");
5:
              define("CHOOSE_TXT", "Choose Language");
6:
7:
          break;
8:
9:
          case "de":
               define("WELCOME_TXT","Willkommen!");
10:
               define("CHOOSE_TXT", "Sprache auswählen");
11:
12:
          break;
13:
14:
          case "ja":
15:
               define("WELCOME_TXT","[unprintable characters]");
               define("CHOOSE_TXT","[unprintable characters]");
16:
17:
          break;
18:
19:
          default:
               define("WELCOME_TXT","Welcome!");
20:
               define("CHOOSE_TXT","Choose Language");
21:
22:
          break;
23:
       }
24: }
25: ?>
```

```
1:
  <?php
2: session_start();
3: include 'define_lang.php';
  include 'lang_strings.php';
5:
  defineStrings();
6:
7:
 <!DOCTYPE html>
8: <html lang="<?php echo LANGCODE; ?>">
9: <head>
   <title><?php echo WELCOME_TXT; ?></title>
10:
11: <meta charset="<?php echo CHARSET; ?>" />
12: <body>
13: <h1 style="text-align: center;"><?php echo WELCOME_TXT; ?></h1>
14: 
15: <?php echo CHOOSE TXT; ?><br/>
16: <a href="<?php echo $_SERVER['PHP_SELF']."?lang=en"; ?>">
    <img src="en_flag.gif" alt="English" /></a>
18: <a href="<?php echo $ SERVER['PHP SELF']."?lang=de"; ?>">
    <img src="de_flag.gif" alt="German"/></a>
20: <a href="<?php echo $_SERVER['PHP_SELF']."?lang=ja"; ?>">
    <img src="ja_flag.gif" alt="Japanese"/></a>
21:
22: 
23: </body>
24: </html>
   _______27.3______define lang.php
lang strings.php
10חחח11חחח13חחח15חחחח16חחח18חחחחחחחחחחחחחחחחחחחחחחח
```



027-1 000000000

______Welcome_Choose Language____





| 27.5 [][gettext()[][][][] |
|---|
| |
| GNU gettext |
| http://www.gnu.org/software/gettext/ gettext.htm [|
| <pre></pre> |
| gettext[][]gettext[][]PHP[][][][][][][][][][][][][][][][][|
| |

| • _textdomain() _ gettext |
|---|
| http://www.php.net/ textdomain [|
| • DDDDDDDgettextD"some string"DDD"some string"DDDDD |
| gettext |
| "Willkommen!" |
| <pre>"Willkommen!"</pre> |
| echo _("Welcome"); |
| 00000000000000000000000000000000000000 |
| 27.6 |
| |
| |
| 00000000000000000000000000000000000000 |

27.7 Q&A

| Anumber_format()_date()
date()number_format()
MM-DD-YYYY, DD-MM-YYYYnumber_format()
 | | | | | |
|---|--|--|--|--|--|
| 27.8 [[[[]]] | | | | | |
| | | | | | |
| | | | | | |
| 100000000000000000000000000000000000000 | | | | | |
| 200000000000000000000000000000000000000 | | | | | |
| 300000000000000000000000000000000000000 | | | | | |
| | | | | | |
| 10000000000000 | | | | | |
| 2 Content-Language Content-Type | | | | | |
| 300000000000000000000000000000000000000 | | | | | |
| 300000000000000000000000000000000000000 | | | | | |

| 1 Google Translate |
|--|
| 20000000000000000000000000000000000000 |

□28□ □□XML

- 0000000XML
- ____DOM___PHP___XML_
- DDDDSimpleXMLDDDPHPDDDXMLD
- [[[]]SON[[[]]

28.1 □□□XML

28.1.1 | | | | | | | | | | | | | |



| XML
XML |
|--|
| <books></books> |
| 00000000000000000000000000000000000000 |
| <pre><publishinginfo></publishinginfo></pre> |
| books.xml |
| |

- XML_____
Book>_
book>______



```
1:
    <?php
    $dom = new DomDocument;
    $dom->load("books.xml");
4:
5:
    foreach ($dom->documentElement->childNodes as $books) {
        if (($books->nodeType == 1) && ($books->nodeName == "Book")) {
6:
7:
8:
            foreach ($books->childNodes as $theBook) {
9:
                 if (($theBook->nodeType == 1) &&
                 ($theBook->nodeName == "Title")) {
10:
11:
                     $theBookTitle = $theBook->textContent;
12:
                }
13:
14:
                 if (($theBook->nodeType == 1) &&
15:
                 ($theBook->nodeName == "Author")) {
16:
                     $theBookAuthor = $theBook->textContent;
17:
18:
19:
                 if (($theBook->nodeType == 1) &&
                 ($theBook->nodeName == "PublishingInfo")) {
20:
21:
22:
                     foreach ($theBook->childNodes as $thePublishingInfo) {
23:
                         if (($thePublishingInfo->nodeType == 1) &&
24:
                         ($thePublishingInfo->nodeName == "PublisherName")) {
25:
                             $theBookPublisher = $thePublishingInfo->textContent;
26:
                          }
27:
28:
                         if (($thePublishingInfo->nodeType == 1) &&
29:
                         ($thePublishingInfo->nodeName == "PublishedYear")) {
30:
                             $theBookPublishedYear =
31:
                                $thePublishingInfo->textContent;
32:
                         }
33:
                    }
34:
                }
35:
            }
36:
            echo "
37:
            <em>".$theBookTitle."</em>
38:
39:
            by ".$theBookAuthor."<br/>
            published by ".$theBookPublisher." in ".$theBookPublishedYear."";
40:
41:
            unset($theBookTitle);
42:
43:
            unset($theBookAuthor);
44:
            unset($theBookPublisher);
45:
            unset($theBookPublishedYear);
46:
        }
47: }
48: ?>
```

| \$books |
|---|
| 6 |
| 19 |
| [8] 35 40 \$theBookTitle \$theBookAuthor \$theBookPublisher \$theBookPublishedYear [8] 42 45 60 [8] 60 |



| books.xmlSimpleXML |
|--------------------|

28.3 ||SimpleXML|||PHP|||XML

| SimpleXML_PHP 5 | |
|---|------|
| 00000000PHP000000000"00XML000000000000000 |]"[[|
| | |

| DOMDDDDDDDDDDDDDDSimpleXMLDDDDDDDDD |
|---|
| $ \ \ \ \ \ \ \ \ $ |
| $\verb $ |
| |
| <pre>\$object_with_data = simplexml_load_file("somefile.xml");</pre> |
| 28.2SimpleXML |
| |
| 28.2SimpleXML |
| 1: php 2: \$theData = simplexml_load_file("books.xml"); 3: echo "<pre "; 4: print_r(\$theData); 5: echo ""; 6: ?> |
| |
| ∏∏2∏∏∏Simple load file()∏books.xml∏∏∏∏∏∏∏∏ |
| |
| |
| \$theData4print_r() |

```
☐ localhost/28/simplexml_dui ×

     → C  http://localhost/28/simplexml_dump.php
SimpleXMLElement Object
    [Book] => Array
            [0] => SimpleXMLElement Object
                    [Title] => A Very Good Book
                    [Author] => Jame Doe
                    [PublishingInfo] => SimpleXMLElement Object
                            [PublisherName] => Sams Publishing
                            [PublisherCity] => Indianapolis
[PublishedYear] => 2012
            [1] => SimpleXMLElement Object
                    [Title] => An Academic Book
                    [Author] => Anne Smith
                    [PublishingInfo] => SimpleXMLElement Object
                            [PublisherName] => University of California Press
                            [PublisherCity] => Berkeley
                            [PublishedYear] => 2011
            [2] => SimpleXMLElement Object
                    [Title] => Some Fluff Fiction
                    [Author] => Jimbo Jones
                    [PublishingInfo] => SimpleXMLElement Object
                            [PublisherName] => Fluffy Press
                            [PublisherCity] => New York
                            [PublishedYear] => 2009
               )
       )
```

_____simplexml_dump.php

```
[0] => SimpleXMLElement Object
(
      [Title] => A Very Good Book
      [Author] => Jane Doe
      [PublishingInfo] => SimpleXMLElement Object
      (
            [PublisherName] => Sams Publishing
            [PublisherCity] => Indianapolis
            [PublishedYear] => 2012
      )
)
```

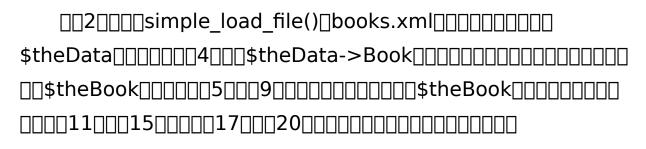
\$theData->Book

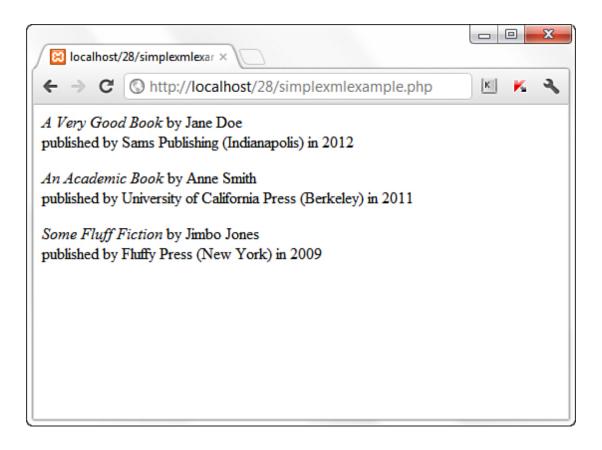


- \$theData->Book->Title for the Title
- \$theData->Book->Author for the Author
- \$theData->Book->PublishingInfo->PublisherName for the Publisher Name
- \$theData->Book->PublishingInfo->PublisherCity for the Publisher City
- \$theData->Book->PublishingInfo->PublishedYear for the Published Year

| | | | ∭28.3 |
|--|--|--|-------|
| | | | |

```
1:
    <?php
2:
    $theData = simplexml_load_file("books.xml");
3:
4:
   foreach($theData->Book as $theBook) {
5:
        $theBookTitle = $theBook->Title;
        $theBookAuthor = $theBook->Author;
6:
7:
        $theBookPublisher = $theBook->PublishingInfo->PublisherName;
8:
        $theBookPublisherCity = $theBook->PublishingInfo->PublisherCity;
9:
        $theBookPublishedYear = $theBook->PublishingInfo->PublishedYear;
10:
11:
        echo "
12:
        <em>".$theBookTitle."</em>
        by ".$theBookAuthor."<br/>
13:
        published by ".$theBookPublisher." (".$theBookPublisherCity.")
14:
15:
        in ".$theBookPublishedYear."";
16:
17:
        unset($theBookTitle);
18:
        unset($theBookAuthor);
19:
        unset($theBookPublisher);
20:
        unset($theBookPublishedÝéar);
21: }
22: ?>
```





http://www.php.net/simplexml []PHP[][]

28.4 **□**□JSON

}

___28.4 JSON____

```
1:
   {
2:
       "book":[
3:
         {
             "title": "A Very Good Book",
4:
             "author": "Jane Doe",
5:
6:
             "publisher_name": "Sams Publishing",
             "publisher city": "Indianapolis",
7:
             "publisher_year":"2012"
9:
         },
10:
             "title": "An Academic Book",
11:
             "author": "Anne Smith",
12:
13:
             "publisher_name":"University of California Press",
             "publisher city": "Berkeley",
14:
15:
             "publisher year": "2011"
16:
         },
17:
             "title": "Some Fluff Fiction",
18:
             "author": "Jimbo Jones",
19:
20:
             "publisher_name":"Fluffy Press",
21:
             "publisher city": "New York",
             "publisher_year": "2009"
22:
23:
         }
24:
      ]
25: }
```

| DDDDJSONDDDDDDhttp://www.json.org |
|--|
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| |
| |
| SimpleXML28.5 |
| |
| 28.5JSON |
| 1: php 2: \$theData = file_get_contents("books.txt"); 3: echo "<pre "; 4: print_r(json_decode(\$theData)); 5: echo ""; 6: ?> |
| |
| JSON4print_r() |
| SON <pre></pre> |
| json_dump.phpWeb |
| Web |

```
0
localhost/28/json_dump.ph ×
                                                                      K
   C http://localhost/28/json_dump.php
stdClass Object
    [book] => Array
            [0] => stdClass Object
                    [title] => A Very Good Book
                    [author] => Jane Doe
                    [publisher name] => Sams Publishing
                    [publisher_city] => Indianapolis
                    [publisher year] => 2012
            [1] => stdClass Object
                    [title] => An Academic Book
                    [author] => Anne Smith
                    [publisher_name] => University of California Press
                    [publisher_city] => Berkeley
                    [publisher_year] => 2011
            [2] => stdClass Object
                    [title] => Some Fluff Fiction
                    [author] => Jimbo Jones
                    [publisher name] => Fluffy Press
                    [publisher city] => New York
                    [publisher year] => 2009
```

□28-4 □□□JSON□□

- \$theData->book->title for the Title
- \$theData->book->author for the Author
- \$theData->book->publisher_name for the Publisher
 Name

- \$theData->book->publisher_city for the Publisher City
- \$theData->book->publisher_year for the Published Year

http://ajax.googleapis.com/ajax/services/search/web?v=1.0&q=PHP

json_google_dump.php_____Web_____

\$theData = file_get_contents("http://ajax.googleapis.com/ajax/services/
search/web?v=1.0&g=PHP");

000Web000000000000028-500000

```
- - X

    localhost/28/json_google_d ×

← → C O http://localhost/28/json_google_dump.php
stdClass Object
    [responseData] => stdClass Object
             [results] => Array
                     [0] => stdClass Object
                              [GsearchResultClass] => GwebSearch
                              [unescapedUrl] => http://www.php.net/
                              [url] => http://www.php.net/
                              [visibleUrl] => www.php.net
                              [cacheUrl] => http://www.google.com/search?q=cache:cdtJ0E-0ieIJ:www.php.net [title] => PHP: Hypertext Preprocessor
                              [titleNoFormatting] => PHP: Hypertext Preprocessor
                             [content] => Server-side HTML embedded scripting language. It provides web developers with a
                     [1] => stdClass Object
                              [GsearchResultClass] => GwebSearch
                              [unescapedUrl] => http://php.net/manual/en/index.php
                              [url] => http://php.net/manual/en/index.php
                              [visibleUrl] => php.net
[cacheUrl] => http://www.google.com/search?q=cache:WIwFqe3yfTsJ:php.net
                              [title] => PHP: PHP Manual - Manual
                              [titleNoFormatting] => PHP: PHP Manual - Manual
                              [content] => Complete and hyperlinked manual documents and explains all ...
                     [2] => stdClass Object
                              [GsearchResultClass] => GwebSearch
                              [unescapedUrl] => http://en.wikipedia.org/wiki/PHP
                              [url] => http://en.wikipedia.org/wiki/PHP
                              [visibleUrl] => en.wikipedia.org
                              [cachellr]] => http://www.google.com/gearch2g=cache--SAKR Dill.T.J.en wikinedia org
```

□28-5 □□Google□□□JSON□□

| JSONPHPjson_decode() |
|---------------------------------|
| |
| API ProgrammableWeb |
| http://www.programmableweb.com/ |

28.5 □□

28.6 Q&A

Q___MySQL_____XML______

| Q | | П | П | П | П | П | | | | | | | | | | П | | | | | | | JS | 0 | N | l |
|---|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|---|---|---|---|---|---|----|---|---|---|
| • | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | _ | | | | 4 |

| ADDDDDDSONDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
|--|
| 28.7 [][] |
| |
| |
| 100000XML00000000 |
| 200000XML0000000DOM00000 |
| \$dom = new DomDocument; 3myData_ SimpleXML |
| |
| 1□ xml version="1.0" |
| 2\$dom_DOM\$\$ |

3[]\$myData = simplexml_load_File("my.xml");



1______SON_______28.1_____ __28.3______

[6]

- **||29|| Apache|||||||||**
- **31 || || || || MySQL**

29 Apache **100 100**

- □□□Apache□□□□

- 000000**DNS**00000

29.1 [[[[[[]]]]

29.1.1 00000

| UNIX ulimit |
|---|
| 1 000 |
| Apache |
| Apache |
| # cat /proc/sys/kernel/threads-max |
| |
| # echo value > /proc/sys/kernel/threads-max |
| _LinuxOS |
| |

||||||

| <pre></pre> |
|--|
| 3 |
| Apache |
| |
| 00000000000000000PHP000000000000000000 |
| |
| RLimitCPU—— |

| • RLimitNProc—— RLimitCPU RLimitCPU |
|--|
| 03000000000000000000000000 |
| 29.1.2 |
| |
| 1 000000 |
| |
| • UNIX _ symbolic link symlink |
| Options Document Design |
| SymLinksIfOwnerMatch Apache DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |

| per-directory per-directory |
|---|
| 000000.htaccess |
| Apache |
| AllowOverride none |
| |
| ODD——Apache ODDOODOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO |
| 2 |
| |
| HostnameLookups—— |
| חחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחחח |

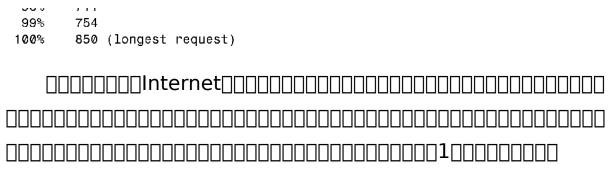
| 2.2/misc/perf-tuning.html [][][][][] |
|---|
| mod_status—— |
| |
| 29.2 ApacheBench |
| 00000000000000000000000000000000000000 |
| |
| 1010URL101010 |
| <pre># /usr/local/apache2/bin/ab -n 1000 -c 10 http://www.google.com/</pre> |
| 00000ab0000000000000000000000000000000 |
| |

```
This is ApacheBench, Version 2.3 <$Revision: 655654 $>
Copyright 1996 Adam Twiss, Zeus Technology Ltd, http://www.zeustech.net/
Licensed to The Apache Software Foundation, http://www.apache.org/
Benchmarking www.google.com (be patient)
Completed 100 requests
Completed 200 requests
Completed 300 requests
Completed 400 requests
Completed 500 requests
Completed 600 requests
Completed 700 requests
Completed 800 requests
Completed 900 requests
Finished 1000 requests
Server Software:
                        aws
Server Hostname:
                        www.google.com
Server Port:
                        80
Document Path:
Document Length:
                        11955 bytes
Concurrency Level:
                        10
Time taken for tests:
                        50.751 seconds
Complete requests:
                        1000
Failed requests:
                        669
   (Connect: 0, Receive: 0, Length: 669, Exceptions: 0)
Write errors:
                        12710814 bytes
Total transferred:
HTML transferred:
                        11974814 bytes
Requests per second:
                        19.70 [#/sec] (mean)
Time per request:
                        507.515 - (mean)
                        50.751 - (mean, across all concurrent requests)
Time per request:
Transfer rate:
                        244.58 [Kbytes/sec] received
Connection Times (ms)
             min mean[+/-sd] median
                                      max
Connect:
              31
                  50 11.3
                               46
                                       179
              88 454 53.8
                               449
                                       803
Processing:
              84 285 119.0
                               282
Waiting:
                                       694
Total:
                               499
             136 504 56.5
                                      850
Percentage of the requests served within a certain time (ms)
  50%
        499
  66%
        512
  75%
        521
  80%
        527
  90%
        540
```

95%

988

564



29.3

29.3.1 | | | | | | | |

29.3.2 □□□□

- _____mod_rewrite

29.3.4

- 0000000
- 0000000
- 00000HTML0000000

29.3.5 □□□□

| HTTP 1.1HTTP 1.0keep-alive KeepAliveTimeout |
|---|
| 29.4 [[[[[|
| |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| |

| http://www.robotstxt.org/ |
|---------------------------|
| Web |

29.5 [[[[[[[[[

Web

- 000——0000000000001P0000001P000000
- _____Apache______Web___

29.5.1 | | | | | | | | | | | |

Apache

29.5.2 0000000

 $\Box HTTP/1.1\Box\Box\Box\Box$

http://httpd.apache.org/docs/2.4/ssl/ssl_faq.html#vhosts [[[[]]] 00Host00000000HTTP/1.10000000HTTP/1.00000000 GET / HTTP/1.1 Accept: image/gif, image/x-xbitmap, image/jpeg, image/pjpeg, */* Accept-Language: en-us Accept-Encoding: gzip, deflate Mozilla/5.0 (Windows NT 6.1; WOW64) AppleWebKit/535.7 (KHTML, like Gecko) Chrome/16.0.912.75 Safari/535.7 Host: host1.example.com Connection: Keep-Alive



| 29.2 Apache Host |
|---|
| |
| #Only use NameVirtualHost if pre-Apache 2.4
NameVirtualHost 192.168.128.10
Listen 192.168.128.10:80 |
| <pre><virtualhost 192.168.128.10=""> ServerName host1.example.com DocumentRoot /usr/local/apache2/htdocs/host1 </virtualhost></pre> |
| <pre><virtualhost 192.168.128.10=""> ServerName host2.example.com DocumentRoot /usr/local/apache2/htdocs/host2 </virtualhost></pre> |
| 192.168.128.10 Apache |
| 00000001P00000000000000000000000000000 |
| $host 3. example. com \verb Apache \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb \verb $ |
| <pre>[host1.example.com[]]]]]]]]]]]]]]]]]</pre> |
| |
| example.com example.com |
| http://hostl/ |
| http://hostl.example.com/ []Host[][][][]host1[][][] |
| host1.example.com |
| |

#Only use NameVirtualHost if pre-Apache 2.4 NameVirtualHost 192.168.128.10 Listen 192.168.128.10:80 <VirtualHost 192.168.128.10> ServerName host1.example.com ServerAlias host1 DocumentRoot /usr/local/apache2/htdocs/host1 </VirtualHost> <VirtualHost 192.168.128.10> ServerName host2.example.com ServerAlias host2 DocumentRoot /usr/local/apache2/htdocs/host2 </VirtualHost> HTTP 1.1nnnnHostnnnnHTTPnnnnnnnnn1.1nnnnnnn 29.5.3 DocumentRoot /usr/local/apache2/htdocs/hostname ____Apache__mod vhost alias______

| #Only use NameVirtualHost if pre-Apache 2.4
NameVirtualHost 192.168.128.10
Listen 192.168.128.10:80 |
|---|
| VirtualDocumentRoot /usr/local/apache2/htdocs/%1 |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| 00000000000000000000000000000000000000 |
| Alias /icons /usr/local/apache2/icons |
| Options |
| |
| #Only use NameVirtualHost if pre-Apache 2.4 NameVirtualHost 192.168.128.10 Listen 192.168.128.10:80 VirtualDocumentRoot /usr/local/apache2/htdocs/%1/docs VirtualScriptAlias /usr/local/apache2/htdocs/%1/cgi-bin |

____IP____Virtual-DocumentRootIP[]VirtualScriptAliasIP[] 29.6 Web_____ Apache DNS______ 29.7 Q&A **Q**0000000000000000

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| | 4VirtualHostServerNamedirective |
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| □Sy
□□□ | 1ApacheOptionsFollowSymLinks
rmLinksIfOwnerMatchper-directory |
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30 || || || || || || || || || || ||

- SSL/TLS
- || Apache 2.2 || mod_ssl Apache || ||

30.1 [[[[[[[[[

30.2 SSL□□

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| DES_Triple-DES_RC4_ RC2 |
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| SSL |
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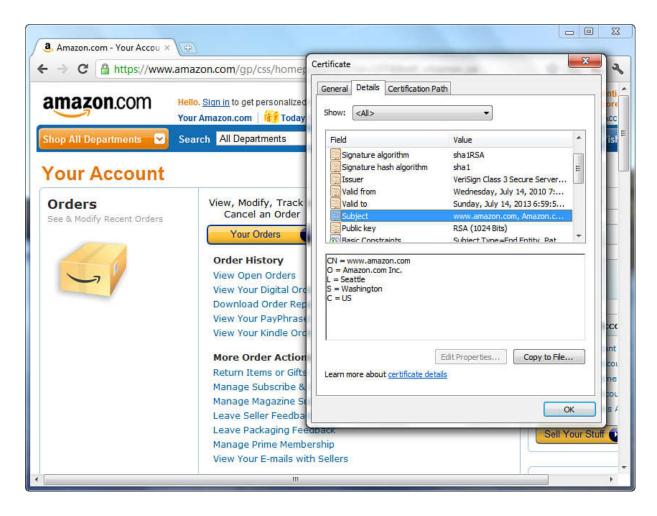
SSL____MAC_____

30.2.3

| SS | SL0000 | | | | | |
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 $\square 30-1$ www.amazon.com $\square \square \square \square SSL \square \square$

| $\cite{thm} 30-1 \cite{thm} Subject \cite{thm} Amazon.com \cite{thm} Inc \cite{thm} \ci$ |
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| CSTLOOCNOWeb |
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| U |
| www.amazon.com[][][]"www"[][][][][][][][][][][][][][][|
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30.3 [[[[]]SSL[[[]]

30.3.1 OpenSSL

| mod_ssl Apache |
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| 1 Windows Company Comp |
| OpenSSLOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO |
| Visual C++Borland CGNU C (Cygwin or MinGW) |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| 2 UNIX/Linux |
| |
| <pre># gunzip < openssl-version.tar.gz tar xvf - # cd openssl-version</pre> |
| |

30.3.2 Apache mod_ssl

1 Windows 0

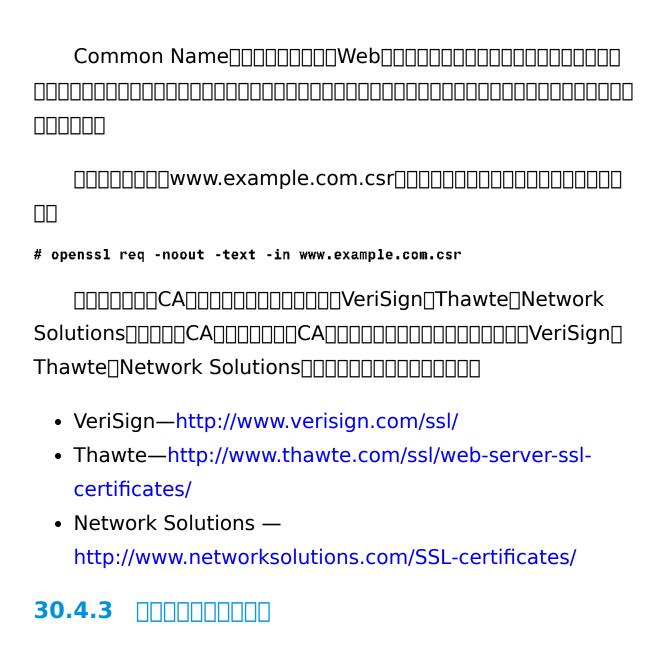
- [[OpenSSL[[[]]]
- Windows□□SDK□
- awk[][]awk[]gawk[][][][]

200UNIX/Linux

| 3 |
|--|
| enable-sslwith-ssl=/usr/local/ssl/ |
| ODODODODODODODODO |
| <pre># /usr/local/apache2/bin/httpd -1</pre> |
| |
| mod_ssl |
| LoadModule ssl_module modules/libmodssl.so |
| |
| Apache/2.4.1 (Unix) mod_ssl/2.4.1 OpenSSL/0.9.8t PHP/5.4.0 |
| 30.4 |
| OpenSSL_mod_sslSSL |

| 00000SSL000000000000000000000000000000 |
|--|
| |
| 30.4.1 |
| www.example.com |
| # openssl genrsades3 -out www.example.com.key 1024 |
| genrsa[][]OpenSSL[][][][][][][][][] des3[][][][][][][][][][][][] out[][][][][][][][][][] 1024[][][][][][][][][] |
| |
| Generating RSA private key, 1024 bit long modulus++++++ e is 65537 (0x10001) Enter pass phrase for www.example.com.key: |
| |
| |

```
# openssl rsa -in www.example.com.key -out www.example.com.key.unsecure
           Normal New William Strategies (New York) (New York) New York (New 
# openssl rsa -noout -text -in www.example.com.key
           30.4.2
           # req -new -key www.example.com.key -out www.example.com.csr
           Using configuration from /usr/local/ssl/install/openssl/openssl.cnf
Enter PEM pass phrase:
You are about to be asked to enter information that will be incorporated
into your certificate request.
What you are about to enter is what is called a Distinguished Name or a DN.
There are quite a few fields but you can leave some blank
For some fields there will be a default value,
If you enter '.', the field will be left blank.
Country Name (2 letter code) [AU]:US
State or Province Name (full name) [Some-State]:CA
Locality Name (eg, city) []: San Francisco
Organization Name (eg, company) [Internet Widgits Pty Ltd]:.
Organizational Unit Name (eg, section) []:.
Common Name (eg, YOUR name) []:www.example.com
Email Address []:administrator@example.com
Please enter the following 'extra' attributes
to be sent with your certificate request
A challenge password []:
An optional company name []:
```



ПППWebПППП

openssl x509 -req -days 30 -in www.example.com.csr -signkey

www.example.com.key -out www.example.com.cert

| <pre> [[][][][][][][][][][][][][][][][][][][</pre> |
|--|
| |
| # chmod 400 www.example.com.key |
| |
| 30.5 SSL[[[|
| SSL |
| Apache 2.2.x0000"000000000000000000000000000000 |
| Include conf/extra/httpd-ssl.conf |
| httpd-ssl.conf |
| UseCanonicalName On <virtualhost www.example.com:443=""> ServerName www.example.com SSLEngine on SSLCertificateFile /usr/local/ssl/openssl/certs/www.example.com.cert SSLCertificateKeyFile /usr/loca/ssl/openssl/certs/www.example.com.key </virtualhost> |
| SSLEngine SSLEngine SSL SSL SSL SSL SSL SSL SSL SSL SSL SS |

| SSLCertificateKeyfile |
|-----------------------|
| |
| <pre></pre> |
| |
| 30.6 |
| |
| |

30.7 Q&A

Q_____SSL__

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| A mod_ssl |
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| 1Internet3 |
| 2SSL_Apache |
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| |

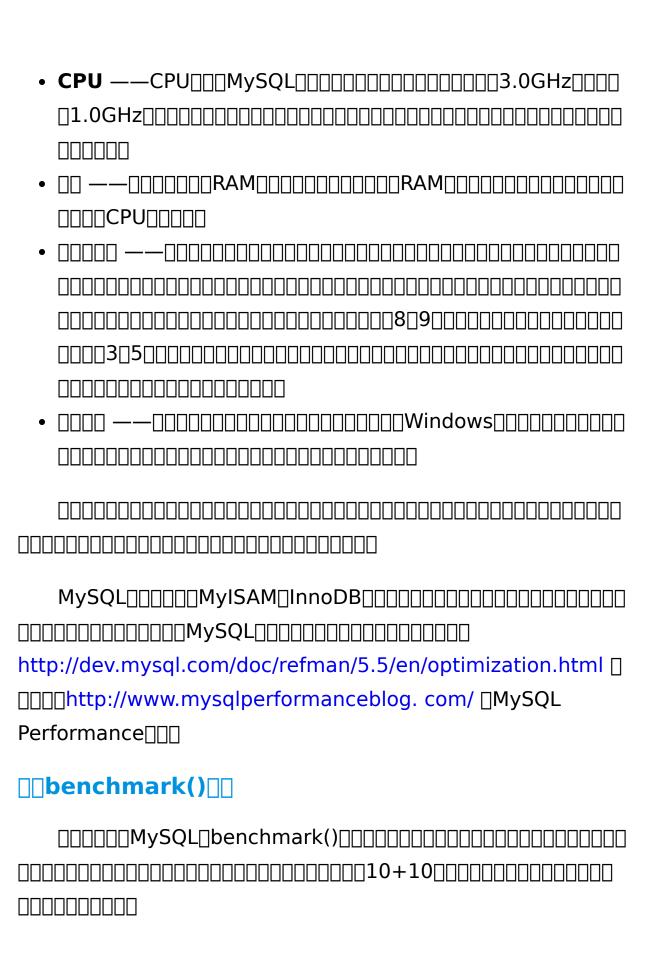
2||||httpd-ssl.conf|||||||httpd.conf||||||||apachectl start|||||

31 || || || || MySQL

- MySQL
- ||||||OPTIMIZE TABLE|||||
- 0000FLUSH0000000000000
- 0000**SHOW**0000000000

http://www.mysql.com/products/workbench/

31.1

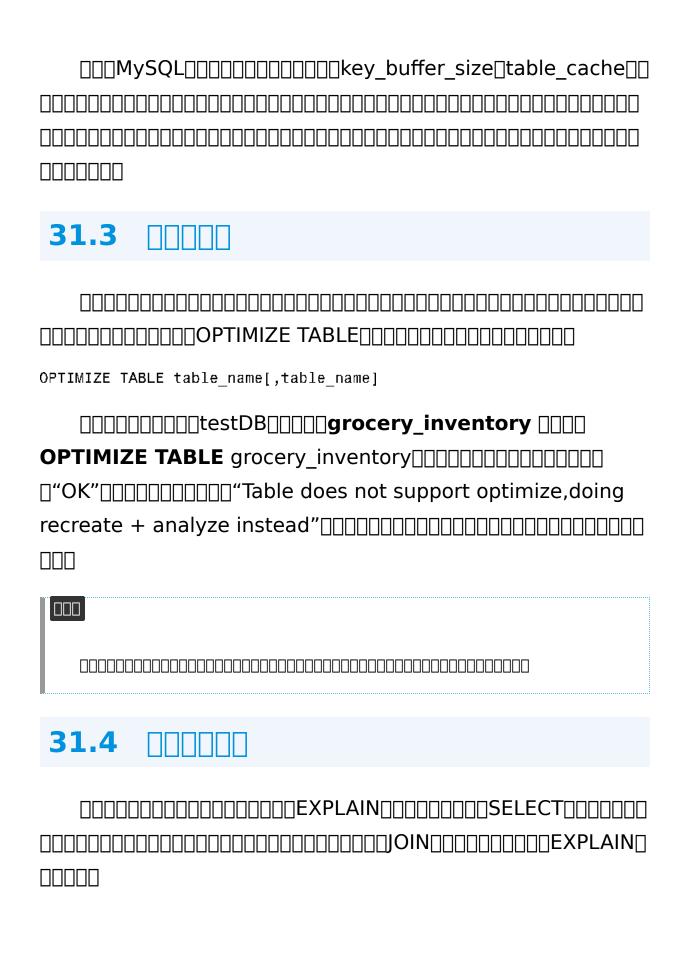


```
100 \square \square
select benchmark(1000000,10+10);
 benchmark(1000000,10+10)
1 row in set (0.04sec)
 select benchmark(1000000, extract(year from now()));
 | benchmark(1000000, extract(year from now())) |
1 row in set (0.09sec)
```

31.2 MySQL

| MySQL AB |
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| |
| MySQL suppor-files Windows |
| |
| • my-small.cnf —— RAM 64MB MySQL MySQL Color |
| ПП |
| my-medium.cnf —— RAM 64MB 64MB 64MB 64MB 64MB 64MB 64MB 64M |
| RAM 128MBMySQL |
| |
| |
| • my-large.cnf —— RAM 128 MB 512 MB 0 0 0 0 0 0 0 0 0 |
| MySQL |
| |
| • my-huge.cnf —— RAM IGB 2GB III III MySQL III III |
| |
| /etc/my.cnf |
| my.cnf |
| |

| key_buffer_size_ |
|--|
| table_cache |
| key_buffer_sizeRey_buffer_sizeRAM_512MB |
| key_read_requests |
| key_reads\(\text{key_write_requests}\(\text{key_writes}\(\text{\texi}\text{\text{\tin\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\t |
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| Key_read_requests |
| key_reads key_read_requests 00000000000000000000000000000 |
| DDDDkey_writesDDDkey_write_requestsDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| |
| key_buffer_size |
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| 00000000000table_cache0000000000000000006400 |
| |
| open_tables[][][][][][][][][][table_cache[][][][] |
| |



 $\mathsf{MySQL} \square \square \square$

| EXPLAIN |
|--|
| • id ——□□□□□ID□ |
| • select_type ——SELECT |
| • table ——[][] |
| • type ——[][][][][][] |
| • possible_keys —— MySQL |
| |
| |
| • key ——NULL_ |
| • key_len —— |
| • ref —— |
| • rows ——MySQL |
| • extra —— DMySQL DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| WhereWHERE |
| |
| |
| possible_keys[][][][PRIMARY[][Extra[][][][][Where[] |
| |
| rows[]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]]] |
| |
| |
| |
| http://dev.mysql.com/doc/refman/5.0/en/ explain.html [|

31.5 □□**FLUSH**□□

FLUSH flush_option

FLUSH____9____

- PRIVILEGES
- TABLES
- HOSTS
- LOGS

mysql> FLUSH PRIVILEGES;

Query OK, 0 rows affected (0.10 sec)

mysql> FLUSH TABLES;

Query OK, 0 rows affected (0.21 sec)

mysql> FLUSH HOSTS;

Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH LOGS;

Query OK, 0 rows affected (0.04 sec)

http://dev.mysql.com/doc/refman/5.5/en/flush. html \square MySQL $\square\square\square$

31.6 □□SHOW□□

SHOW GRANTS FOR user
SHOW DATABASES [LIKE something]
SHOW [OPEN] TABLES [FROM database_name] [LIKE something]
SHOW CREATE TABLE table_name
SHOW [FULL] COLUMNS FROM table_name [FROM database_name] [LIKE something]
SHOW INDEX FROM table_name [FROM database_name]
SHOW TABLE STATUS [FROM db_name] [LIKE something]
SHOW STATUS [LIKE something]
SHOW VARIABLES [LIKE something]

| SHOW GRANTS |
|---|
| SHOW GRANTS |
| joeuser |
| SHOW GRANTS FOR joeuser@localhost; |
| |
| Grants for joeuser@localhost |
| GRANT ALL PRIVILEGES ON *.* TO 'joeuser'@'localhost' IDENTIFIED
 BY PASSWORD ' *13883BDDBE566ECEFF0501CDE9B293303116521A'
 + |
| 1 rows in set (0.00 sec) |
| rootjoeuserroot |
| root |
| SHOW GRANTS FOR root@localhost; |
| |
| ERROR 1044: Access denied for user: 'joeuser@localhost' to database 'mysql' |
| 00000000000000000000000000000000000000 |
| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| 31.6.1 |

| ++ Database |
|--|
| testDB |
| Tables_in_testDB grocery_inventory email master_name myTest testTable |
| 5 rows in set (0.01 sec) |
| DOSHOW TABLESDODOPENDODODODODODODO |
| |
| SHOW OPEN TABLES; |
| |

| + | | | · + | | |
|--------------|-------------------|--------|-------------|--|--|
| Database | Table | In_use | Name_locked | | |
| т | | r | г | | |
| mysql | procs_priv | 0 | 0 | | |
| mysql | db | 0 | 0 | | |
| mysql | host | Ø | 0 | | |
| testdb | grocery inventory | Ø | 0 | | |
| mysql | user | Ø | 0 | | |
| mysql | tables_priv | 0 | 0 | | |
| mysql | columns_priv | 0 | 0 | | |
| ++ | | | | | |
| 7 (2.00) | | | | | |
| / rows in se | et (0.00 sec) | | | | |

FLUSH TABLES

31.6.2

SHOW CREATE TABLE grocery_inventory;

| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD | | | | | | | |
|--|--|-----------------------------|---------|-----------------|-----|---------------|-----------------------------|
| | DODDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD | | | | | | |
| SHOW | COLUMNS | FROM gr | ocery_i | nventor | ъ; | | |
| | | | | | | | |
| • | eld | | | | |
 Default | ++
 Extra |
| it
 it | em_name
em_desc
em_price
rr_qty | varch:
 text
 float | ar(50) | NO
YES
NO | PRI | | auto_increment

 |
| +++++++ | | | | | | | |
| SHOW COLUMNSDDDESCRIBEDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD | | | | | | | |
| SHOW INDEX | | | | | | | |
| SHOW | SHOW INDEX FROM grocery_inventory; | | | | | | |
| 000000000000000000000000000000000000000 | | | | | | | |
| | □31-1 SHOW INDEX□□□□□ | | | | | | |
| | | | | | | | |

| 0 0 | | |
|--------------|--|--|
| Table | | |
| Non_unique | 1001=000000=00000 | |
| Key_name | | |
| Seq_in_index | | |
| Column_name | | |
| Collation | 00000000A (00)000NULL (000) | |
| Cardinality | | |
| Sub_part | 00000000000000000000000000000000000000 | |
| Packed | | |
| Null | | |
| Index_type | | |
| Comment | | |

| DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD | | | | |
|--|------------|-----------------------|--|--|
| | []3 | 1-2 SHOW TABLE STATUS | | |
| | 0 0 | | | |
| | Name | | | |
| | Engine | | | |
| | Version | *.frm | | |
| | Row_format | | | |

Rows

Avg_row_length

Max_data_length

Data_length

| 0 0 | |
|----------------|----------------|
| Index_length | |
| Data_free | |
| Auto_increment | auto_increment |
| Create_time | |
| Update_time | |
| Check_time | |
| Collation | |
| Checksum | |
| Create_options | |
| Comment | |

31.6.3

SHOW STATUS SHOW VARIABLES SHOW VARIABLES SHOW STATUS SHOW VARIABLES

NUMBER OF STATUS TO THE PROPERTY OF THE PROPER

| • | Aborted_connects —— DDDD MySQL DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
|---|---|
| | |
| | |

- **Connections** —— ______ MySQL______
- Slow_queries —— Ong_query_time Ong

| | http://dev.mysql.com/doc/refman/5.5/en/show-status.html | MySQL | SHOW STATUS | STATUS |

SHOW VARIABLES

- port ——MySQL
- table_type ——MySQL
- version ——MySQL

| nttp://dev.mysql.com/doc/refman/5.5/en/show-variables.html nySQLnnnnnnsHOW VARIABLES |
|---|
| 31.7 |
| MySQLMySQLCPU |
| 00000000000000000000000000000000000000 |
| MySQLkey_buffer_size_table_cache |
| OOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO |
| MySQL MySQL <td< td=""></td<> |

31.8 Q&A

A_____CPU_MySQL______

Q___OPTIMIZE

31.9

ППП

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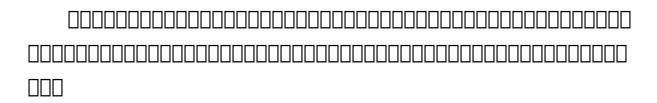
3000FLUSH0000MySQL00000

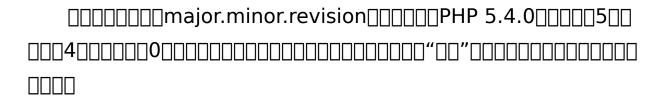
4____MySQL___InnoDB____SHOW STATUS__
SHOW VARIABLES_

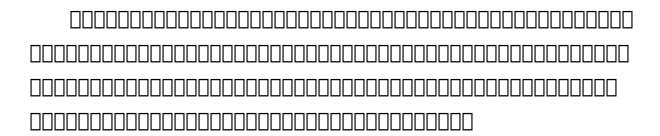
5|||||||SQL|||||||||||myTable|||SQL|||||

| 1□benchmark()□□ |
|---|
| 2[OPTIMIZE |
| 3∏FLUSH LOGS |
| 4□SHOW VARIABLES |
| 5□SHOW CREATE TABLE myTable |
| |
| 1rootkey_buffer_size_table_cache[|
| 200000000000000OPTIMIZE000000000 |
| 3000SHOW STATUS00000MySQL000000000FLUSH000000000000000000000000000000000000 |

| 0000000000 000MySQL0000000 000Apache0000000 000PHP00000000 |
|---|
| |
| PHP_Apache_MySQL |
| |
| 32.1 00000 |
| Apache_PHP_MySQL666 |
| MySQLhttp://lists.mysql.com/MySQL Apache http://www.apache.org/foundation/mailinglists.html Apache PHPhttp://www.php.net/mailing.lists.phpPHP |







SECURITY: CVE-2007-6388 (cve.mitre.org) mod_status: Ensure refresh parameter is numeric to prevent a possible XSS attack caused by redirecting to other URLs.

mpm_winnt: Eliminate wait_for_many_objects. Allows the clean shutdown of the server when the MaxClients is higher then 257, in a more responsive manner. Fixed bug #43137 (rmdir() and rename() do not clear statcache).

| 32.2 MySQL |
|---|
| UNIX/LinuxWindowsMySQL |
| 000
0000MySQL000000000000000000000000000000000000 |
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| http://dev.mysql.com/doc/refman/5.5/en/upgrading. html [] [] [] [] [] [] [] [] [] [] [] [] [] |
| |

| MySQL |
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| |
| |
| Apache |
| UNIX/Linux |
| |
| □□□□httpd-2.2.17□httpd-2.4.1□ |
| Apache |
| # ./configureprefix=/usr/local/apache2 |
| , <u>.</u> |
| configure Apache Apache |
| □make□make install□□□ |
| ApacheApachehttpd |
| |
| |
| |
| |
| |
| UNIX/Linux Apache PHP Windows |
| httpd.conf |
| |

|||Apache|||||||

| Apache |
|---|
| |
| |
| 32.4 PHP |
| UNIX/Linux UDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD |
| PHP |
| Windows |

| <pre>Decliphe Extension community library PHPDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD</pre> |
|--|
| PEAR_ |
| 32.5 |
| MySQL_Apache_PHPMySQL_Apache_PHP |
| 32.6 |
| |
| |
| 10000030000400001400000000000 |

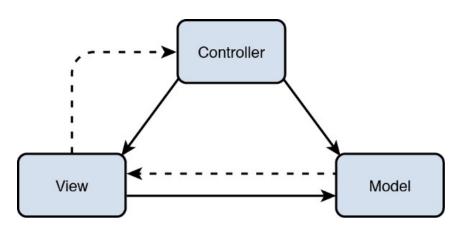
| 200000000000000000000000000000000000000 |
|---|
| 3makefiles |
| |
| 10000003.4.140 |
| 20000000000000 |
| 3∏make clean∏∏ |
| |
| PHPD MySQL_Apache |

- 000000000P**HP**0000000

(http://www.wordpress.org) Drupal (http://www.drupal.org)

Doomla (http://www.joomla.org)

33.2 **|| MVC||**



| OD ——ODOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOOO |
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| 00000000000MVC0000000000000000000000000 |
| 10000000000000000 |
| 20000000000000000 |
| 300000000000000000000000000000000000000 |
| 400000000000000000000000 |
| 0000000PHP00000000MVC0000000000000000000000000000 |
| MVC Jeff Atwood |

 $\cup{"Understanding Model-View-Controller"}$

CodeIgniter

(http://www.symfony.com/) Tii(http://

http://en.wikipedia.org/wiki/Comparison_of_web_application_frameworks#PHP []

33.3.1 Zend Framework

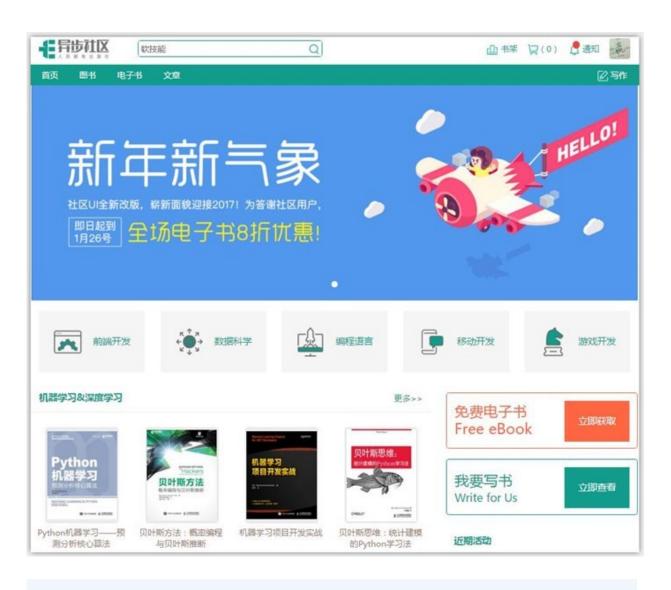


33.3.2 CakePHP

| CakePHP(http://www.cakephp.org/) |
|---|
| |
| Zend Framework |
| |
| |
| DDDDDZend Framework |
| |
| |
| |
| CakePHPDDDDDPHPDApacheDMySQLDDDDD |
| CakePHP Cookbook |
| http://book.cakephp.org/2.0/en/installation.html |
| PHP |
| |
| |
| |
| http://book.cakephp.org/2.0/en/getting-started.html |
| CakePHP |
| 33.3.3 Codelgniter |
| □□CakePHP□□□□□□ |
| CodeIgniter(http://www.codeigniter.com) |
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| CodelgniterMVC |
|--|
| CodeIgnite PHP Apache MySQL |
| codeigniter.com/user_guide/general/requirements.html Server Requirements http://codeigniter.com/downloads/ |
| 33.4 [|
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| 33.5 |
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| 2000000000000000 |
| 300000000000000000PHP0MySQL000000000000000000000000000000000000 |
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 $\square\square \& \square\square\square$ contact@epubit.com.cn